Operating Instructions

COMPACT disc DIGITAL AUDIO

CD FILE 50+1-DISC

STEREO CASSETTE DECK RECEIVER

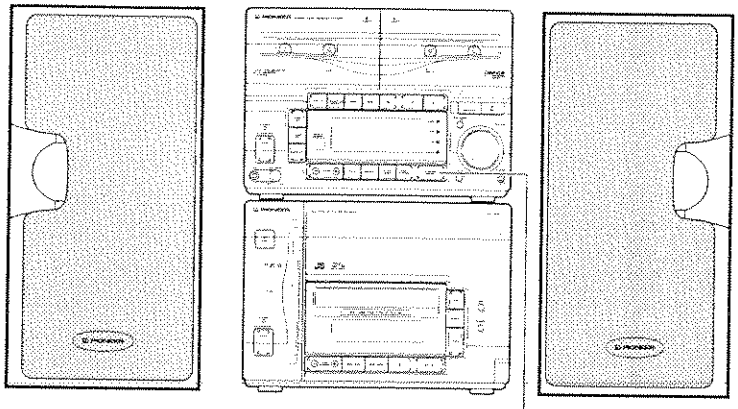
RX-P840

FILE-TYPE COMPACT DISC PLAYER

PD-P840F

SPEAKER SYSTEM

S-P840V/ S-P840A/ S-P840



The speaker's illustration shows S-P840V.

Thank you for buying this PIONEER product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT NOTICE
[For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

"This product complies with the Radio Interference requirements of the EC (European Community) Directive 87/308/EEC."

DEMO Function:

- After completing system connections, confirm that the power is turned OFF, then press the FUNCTION (DEMO) button; the unit will turn on and enter the DEMO (demonstration) mode. When the demo mode is set, the display will show the wide variety of system functions.
- If CDs are loaded in the rolling rack (☞ P.18), you can listen to the CD playback at the same time. However, since random playback (☞ P.22) is selected in this mode, no sound will be produced from disc numbers where no disc is actually loaded.
- To cancel the demo mode, turn the power OFF, or press the FUNCTION button once again.

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period.

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

PIONEER

The Art of Entertainment

IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

If the plug provided is unsuitable for your socket outlets, the plug must be cut off and a suitable plug fitted.

The cut-off plug should be disposed of and must not be inserted into any 13 amp socket as this can result in electric shock. The plug or adaptor of the distribution panel should be provided with 5 amp fuse. As the colours of the wires in the mains lead of this appliance may not correspond with coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Do not connect either wire to the earth terminal of a three pin plug.

NOTE
After replacing or changing a fuse, the fuse cover in the plug must be replaced with a fuse cover which corresponds to the colour of the insert in the base of the plug or the word that is embossed on the base of the plug, and the appliance must not be used without a fuse cover. If lost, replacement fuse covers can be obtained from your dealer.
Only 5 A fuses approved by B.S.I. or A.S.T.A. to B.S. 1362 should be used.

SAFETY INSTRUCTIONS

READ INSTRUCTIONS – All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS – The safety and operating instructions should be retained for future reference.

HEED WARNING – All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS – All operating and use instructions should be followed.

WATER AND MOISTURE – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION – The appliance should be installed in a stable location.

WALL OR CEILING MOUNTING – The appliance should not be mounted to a wall or ceiling.

VENTILATION – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

HEAT – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

POWER SOURCES – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

POLARIZATION – If your purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

CLEANING – The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

POWER LINES – An outdoor antenna should be located away from power lines.

NONUSE PERIODS – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE – The appliance should be serviced by a Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the appliance.
- The appliance has been exposed to rain.
- The appliance does not appear to operate normally or exhibits a marked change in performance.
- The appliance has been dropped or the enclosure damaged.

SERVICING – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

OUTDOOR ANTENNA GROUNDING – If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.
In the U.S.A. section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

CART – An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

NEC — NATIONAL ELECTRIC CODE

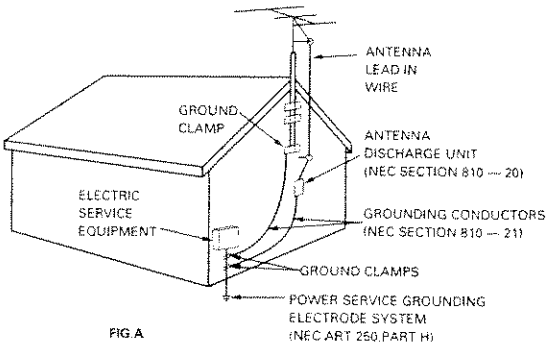


FIG.A

[FOR U.S. AND MULTI-VOLTAGE MODELS]

CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

[FOR U.K. MODELS]

CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

The following caution label appears on your player.

Location: rear of the player

CLASS 1
LASER PRODUCT

Information to user

Alteration or modifications carried out without appropriate authorization may invalidate the users right to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

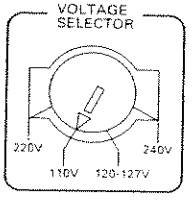
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

LINE VOLTAGE SELECTOR SWITCH

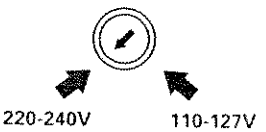
Only multi-voltage models are provided with this switch. U.S., Canadian, U.K. and Australian models are not provided with this switch. Mains voltages in Saudi Arabia are 127V and 220V only. Never use this model at the 110V setting in Saudi Arabia.

Before your model is shipped from the factory, this switch is set to the power requirements of the destination; nevertheless, you should check that it is set properly before plugging the power cord into the wall outlet.

1. Disconnect the power cord.
2. Use a medium-size screwdriver.
3. Insert the screwdriver into the groove on the voltage selector, and adjust so that the tip of the arrow points to the voltage value of your area.



<Stereo cassette deck receiver>



<CD Player>

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

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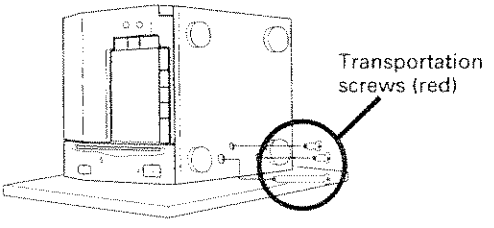
TRANSPORTATION SCREW

In order to protect the inside of the CD player from the vibration and shocks during transportation, the internal mechanism is fixed with the transportation screws.
Before using the CD player, remove the three transportation screws located on the bottom panel by turning the screws counter-clockwise with a phillips or flat-blade screwdriver.
If the CD player is placed with the top panel down and the screws are removed, the internal mechanism will fall. Be sure to place the CD player with left side panel down and remove the screws (red x 3). Before tilting the CD player, confirm that no discs are inserted in the CD player.



Retain all screws as they will be necessary when the CD player is to be transported.

Never remove any screws other than the transportation screws.

- When retransporting the CD player in the future, remove all discs in the CD player and close all Rolling Racks (☞ P.18). Turn off the POWER STANDBY/ON switch and leave the CD player in STANDBY mode for 10 seconds or more. And then, tighten the transportation screws by turning them clockwise with a phillips or flat-blade screwdriver until they stop. Be careful not to tighten the screws too firmly. When tightening the screws, place the CD player with left side panel down.

AC OUTLET (S) (UNSWITCHED)

Power flows continually to this outlet, regardless of whether cassette deck receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W. The equipment should be disconnected by removing the mains plug from the wall socket when in not in regular use, e.g. when on vacation.

NOTE:
Do not connect appliance with higt power consumption such as heaters, irons or television sets to the AC OUTLET in oder to avoid overheating or fire risk.
This can cause the cassette deck receiver to malfunction.

CAUTIONS REGARDING HANDLING

PRECAUTIONS REGARDING INSTALLATION

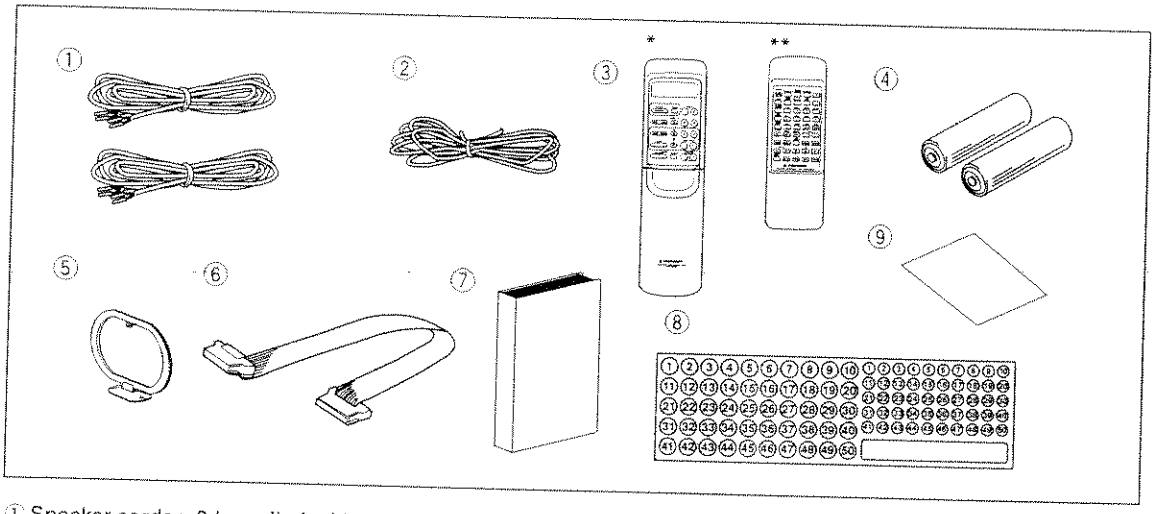
Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.

- Please place this unit on a level surface.
- Avoid damp or dusty environments.
- Placing and using the unit for long periods on heat-generating sources will affect performance. Avoid locating the unit near heaters or in direct sunlight.
- Avoid locations exposed to steam or oily smoke (e.g., from cooking), or in locations exposed to heat.
- Install the unit as far away as possible from your TV. Installation in close proximity to such equipment may cause noise or degradation of the picture.
- Such noise may be particularly noticeable when an indoor antenna is used. In such a case, make use of an outdoor antenna, or turn off power to the unit.

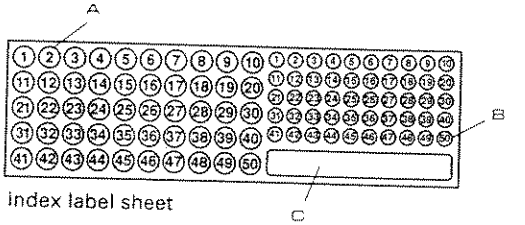
CONDENSATION

When this unit is brought into a warm room from previously cold surroundings or when the room temperature rises sharply, condensation may form inside, and the unit may not be able to attain its full performance. To prevent this, allow the unit to stand for about an hour before switching it on, or ensure that the room temperature rises gradually.

CONFIRM SUPPLIED ACCESSORIES



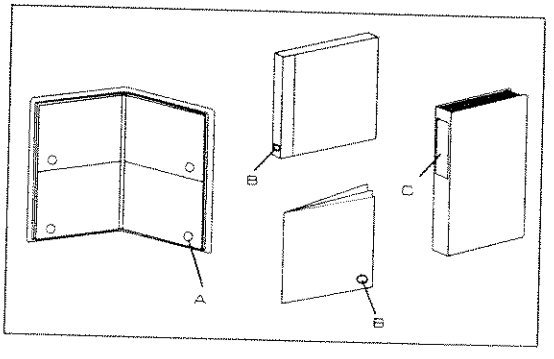
① Speaker cords x 2 (supplied with speaker systems)
② FM T-type antenna x 1
③ Remote control unit x 1
*.....For U.K. model
**.....For U.S. and Multi-voltage models
④ AA batteries x 2 (R6P/SUM-3)
⑤ AM loop antenna x 1 (shown assembled)
⑥ System cable x 1
⑦ CD liner notes file x 1 (supplied with CD player)
⑧ Index label sheet x 1 (supplied with CD player)
⑨ Electrostatic charge removal sheet x 1 (supplied with CD player)



Index label sheet

APPLYING THE INDEX LABELS

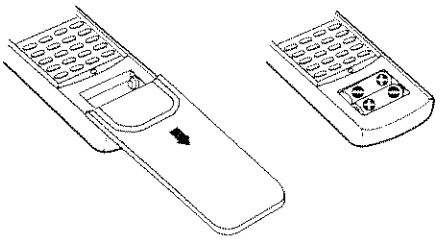
Use the labels shown below (No. 1-50) to label disc cases, etc., to match the disc numbers shown above the grooves on the CD player's rolling racks. (See page 18)



Example of label use
A: For CD liner notes file
B: For CD disc case or disc jacket
C: For spine of CD liner notes file

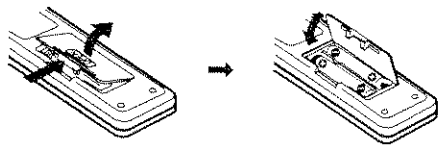
LOADING BATTERIES IN THE REMOTE CONTROL UNIT

● U.K. model only



1. Press and slide the upper lid to remove the cover.
2. Insert two AA batteries (R6P/SUM-3), taking care to match the positive (+) and negative (–) polarity diagram inside the case.
3. Slide the upper lid back to its original position.

● U.S. and Multi-voltage models only



1. Open the battery compartment cover on the back of the remote control unit.
2. Insert two AA batteries (R6P/SUM-3), taking care to match the positive (+) and negative (–) polarity diagram inside the case.
3. Close the cover of the battery case.

SAFETY FIRST!

Incorrect use of dry batteries can lead to dangerous leakage and rupture. Be sure to abide by the following precautions (also read the safety tips printed on your batteries):

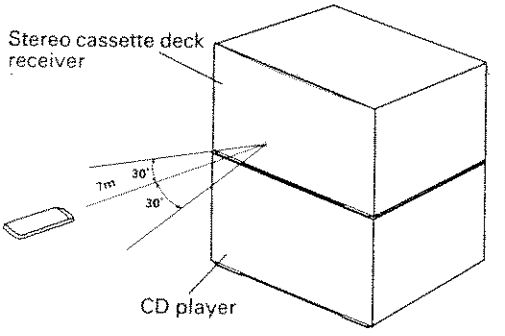
- Load batteries correctly so their positive and negative polarities (+, –) match the diagram inside the battery case.
- Never mix old and new batteries together.
- Batteries from different manufacturers may differ in voltage even when of the same nominal type. Use batteries of the same manufacturer and type together.
- When not using the remote control unit for extended periods of time (one month or more), remove the batteries to prevent any leakage. If leakage does occur, wipe out any spilled battery fluid with a cloth and then replace the batteries with new ones.

Changing batteries (U.K. model only)
If the low-battery warning [▭] appears in the display during use, it is time to change to new batteries.
The remote control unit is provided with a memory backup function, so disc titles stored in the memory will be preserved while changing batteries.

NOTE:
When the low-battery warning indicator lights, the remote control unit's operating range will become shorter, and the display may become darker. If use of the remote control unit is continued, it will become impossible to input titles to the memory. Be sure to change batteries soon after you notice the low-battery warning indicator.

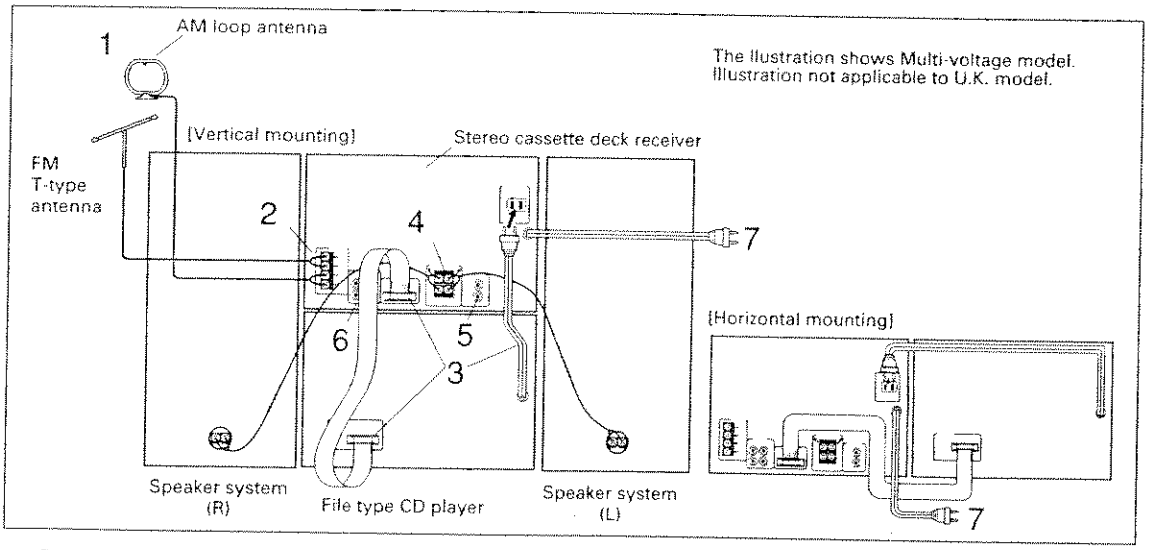
REMOTE CONTROL OPERATING RANGE

The remote control unit can be used within a range of approx. 7 meters (23 feet) from the remote sensor, and within angles of up to approx. 30 degrees.



NOTE:
The remote control unit may fail to operate correctly if strong sunlight or fluorescent light is shining directly at the deck-receiver's remote control sensor. In this case, change the installation location or move the fluorescent lamps.

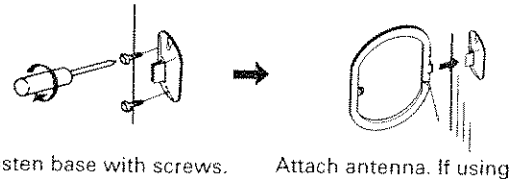
CONNECTIONS



- Be sure all component connections are completed before connecting the power plug to an electrical outlet.
- Be sure to connect the antennas (radio broadcasts will not be received if the antennas are not connected).

1. Setting up the accessory AM loop antenna

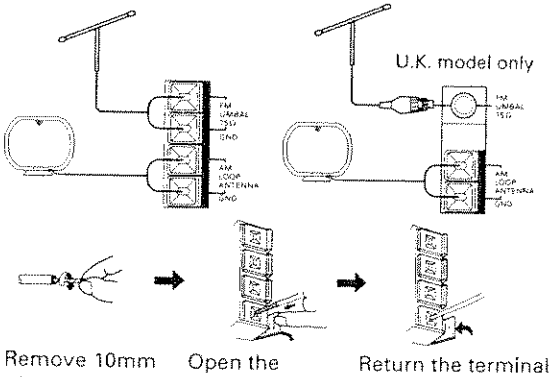
To connect to a wall, etc.



Fasten base with screws.

Attach antenna. If using thumb tacks to mount antenna, use the center hole.

2. Connect the accessory AM and FM antennas



Remove 10mm of the vinyl insulation and twist the exposed core.

Open the antenna terminal lever and insert the copper core of the wire.

Return the terminal lever to its original position. Pull gently on the wire to confirm that it is connected securely and does not slip out.

About the accessory AM loop antenna:

- Mount on a level surface and orient so that the clearest reception is produced.
- Mount the antenna away from the unit in a location where it is not touching metallic objects. Be sure the antenna is also mounted away from personal computers, televisions or other electronic devices, since additional noise may result.
- When mounting the antenna to a wall, first test to find the optimum position and orientation for reception, then use screws to attach the base.

About the accessory FM T-type antenna:

- When mounting the FM antenna, stretch it tautly, without allowing it to drape over objects or become looped or tangled.
- The simple FM T-type antenna is provided to allow easy FM reception; for higher quality reception, the use of a specialized FM antenna is recommended.

3. Connect the CD player

Use the accessory system cable to connect the CD player and deck receiver.

To insert	To remove
Hold the connector, then press in firmly until a click is heard.	Hold the connector securely on both sides and pull out.

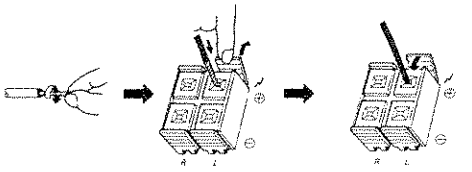
Deck receiver side

CD player side

Connect the CD player's power cord to the special AC outlet on the deck-receiver.

4. Connect the speakers

Connect the red speaker cord to the positive (red, ⊕) side of the deck-receiver's terminal block, and the black wire to the negative (black, ⊖) side. Connect the cords to the speakers in the same way.



Remove 10mm of the vinyl insulation and twist the exposed core.

Open the speaker terminal lever. Insert the wire core into the hole.

Return the lever to its original position. Pull gently on the wire to confirm that it is connected securely and does not slip out.

Speaker impedance

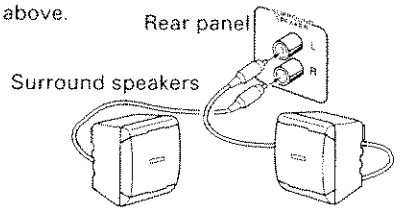
Connect speaker systems with a nominal impedance ranging from 8 to 16 Ω.

Precaution for the S-P840

Do not connect to any amplifier other than the one supplied with this system. Connection to any other amplifier may in rare cases result in smoke or fire.

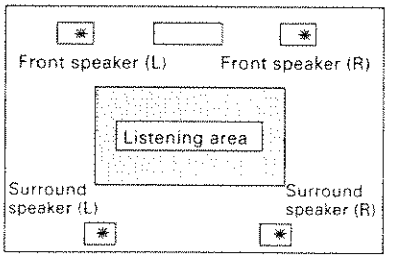
5. Connecting surround speakers (sold separately) (U.K. and Multi-voltage models only)

- Connect the surround speakers S-P77 or S-P55 (sold separately) to the surround speaker terminals.
- Other speaker systems equipped with pin jacks can also be used as surround speakers, but be sure to use speaker systems with impedance of 16 Ω or above.



Surround speaker installation example

- Attach the four supplied non-skid pads to the bottom of the cabinet before using.

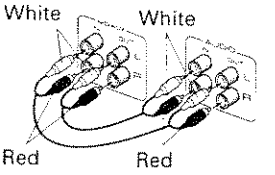


When mounting the speaker system on a wall

- Use the hole located on the rear panel of the speaker to mount it on a wall. Make sure the speakers will not drop when they are mounted on a wall.
- Check if the wall is strong enough to hang the speakers on. PIONEER disclaims the responsibility for damages due to dropping of the speakers and other accidents, which are caused by inappropriate strength on the wall or improper installation.
- No screws, or other fittings are supplied to mount the speakers on the wall.

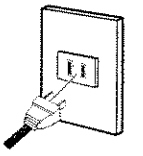
6. Connect other components (MD, DAT, etc.)

For details, see the Operating Instructions furnished with the other components.



7. Finally, connect the deck-receiver's power cord to an electrical outlet.

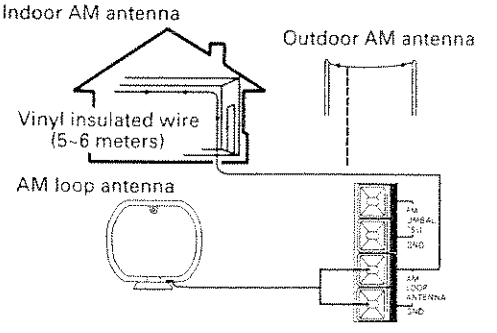
Push the plug into the outlet securely.



When reception quality is insufficient with the supplied antennas

- Purchase and connect outdoor AM and FM antennas (available commercially)

Connecting an external AM antenna

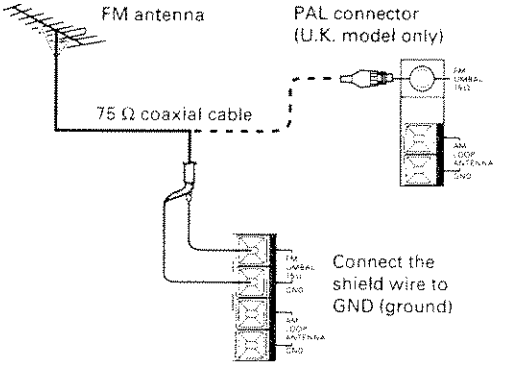


Do not disconnect the AM loop antenna, even when a separate AM antenna is connected.

Connecting an outdoor FM antenna

Connect as shown.

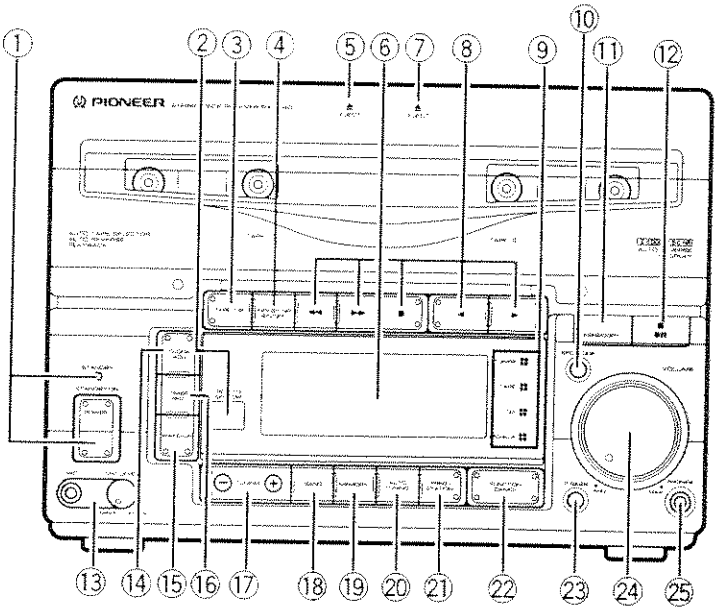
Using coaxial cable



CONTROLS AND FUNCTIONS

STEREO CASSETTE DECK RECEIVER (RX-P840)

The illustration shows Multi-voltage model.



① **POWER STANDBY/ON switch/STANDBY indicator**
This is the switch for electric power.
ON: When set to the ON position, power is supplied and the unit becomes operational.
STANDBY: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

② **Remote control sensor (REMOTE SENSOR)**

③ **TAPE1/2 select button**

④ **DOLBY* NR select button (B/C/OFF)**

*
- *Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.*
- *"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.*

⑤ **TAPE I EJECT port (⏏)**

⑥ **Display**

⑦ **TAPE II EJECT port (⏏)**

⑧ **TAPE 1/2 operating buttons (◄◄, ►►, ■, ◄, ►)**

⑨ **Function select indicator (TUNER, TAPE, CD, MD/AUX)**

⑩ **Sound Field Control (SFC MODE)button (☞ P.32)**

⑪ **ASES/COPY button (☞ P.31)**

⑫ **Record/pause button (●II)**

⑬ **Microphone jack (MIC) and microphone level control (MIC LEVEL) (Multi-voltage model only) (☞ P.33)**

⑭ **Clock adjust button (CLOCK-ADJ) (☞ P.13)**

⑮ **WAKE-UP button (☞ P.34, 35)**

⑯ **Timer recording button (TIMER REC) (☞ P.36)**

⑰ **TUNING (+, –) button (☞ P.15, 16)**

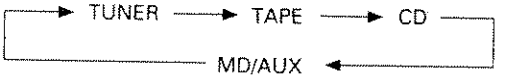
⑱ **BAND button (☞ P.15, 16)**

⑲ **MEMORY button (☞ P.16)**

⑳ **AUTO TUNING button (☞ P.15)**

㉑ **Frequency/station button (FREQ./STATION) (☞ P.16)**

㉒ **FUNCTION select button (DEMO button)**
Each time this button is pressed, the function changes in the following sequence:

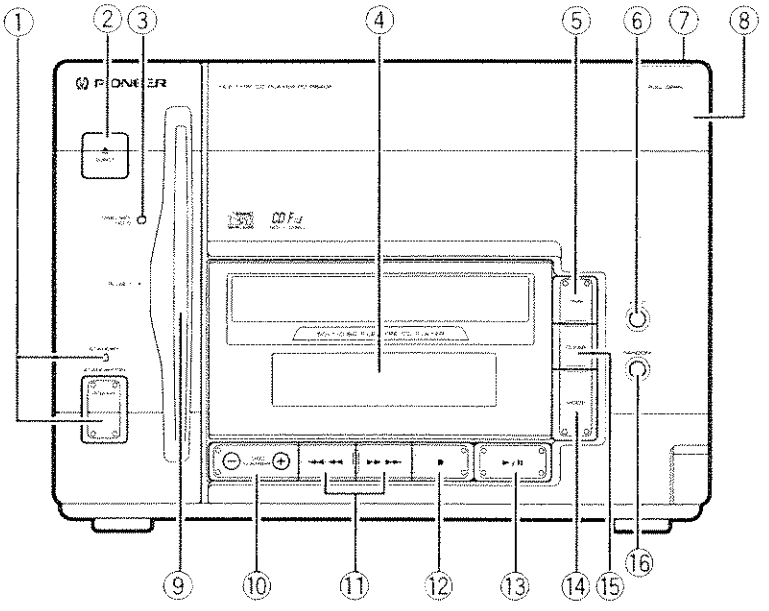


㉓ **P.BASS button (☞ P.14)**

㉔ **VOLUME control**

㉕ **Headphone jack (PHONES)**

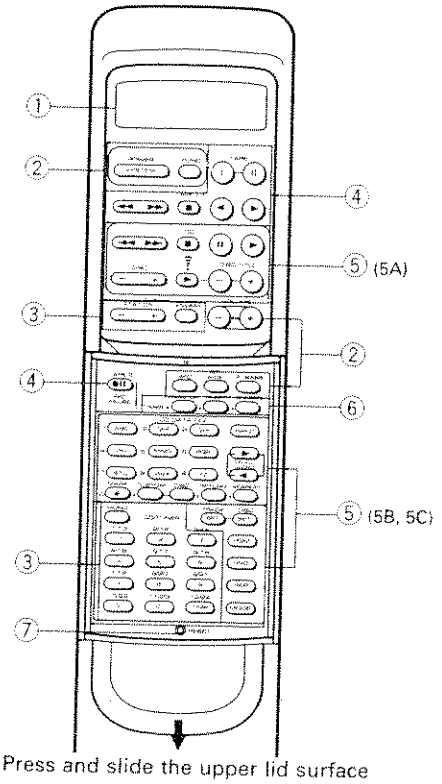
FILE TYPE CD PLAYER (PD-P840F)



① POWER STANDBY/ON switch/STANDBY indicator
② EJECT button (⏏) (☞ P.18)
③ Plus-1 disc set indicator (DISC SET NO.0)
④ Display
⑤ TIME button (☞ P.25)
⑥ ADLC button (☞ P.25)
⑦ Pull out here to open rolling disc racks 1 and 2 (☞ P.18)
⑧ Door panel
⑨ Plus-1 disc slot (PLUS 1 ►) (☞ P.18)
⑩ DISC NUMBER (+, –) button (☞ P.21, 22, 23, 24)
⑪ Track-search, fast-forward, rewind button (|◄◄ · ◄◄, ►► · ►►|) (☞ P.19)
⑫ Stop button (■)
⑬ Play/Pause button (►/II)
⑭ MODE button (☞ P.20, 24)
⑮ CLEAR button (☞ P.23)
⑯ RANDOM play button (☞ P.22)

REMOTE CONTROL UNIT

● For U.K. model



Press and slide the upper lid surface to open the remote control unit case.

Controls shown here without special instructions indicate functions which are the same as those found on the main deck-receiver unit.

① **Display window**
Displays the current operation.

② **System function buttons**

POWER SYSTEM .....Power switch (ON/STANDBY)

FUNC .....Function select button

VOLUME .....Main volume

SFC .....Sound field selector (☞ P.32)

ST. WIDE .....Stereo wide pattern selector button (☞ P.32)

P. BASS .....Bass boost mode button (☞ P.14)

③ **TUNER operation buttons (☞ P.15, 16)**

TUNER STATION .....Use for calling radio stations stored in the station memory. Broadcast stations must be stored in the station memory before operating.

FM/AM .....FM/AM selector

MONO .....FM stereo/mono selector (operates only during FM stereo reception)

1/11 ~ 12/24 ....Station memory call buttons

④ **TAPE I, TAPE II operation buttons (☞ P.28~31)**

TAPE I II .....Use to select Tape I or Tape II

.....Fast forward, rewind button

TAPE I II .....Stop button

.....Play buttons

TAPE II .....TAPE II record/pause button:
This button does not operate when TAPE I is lighted in the remote control unit's display. Switch first to TAPE II.

⑤ **CD operation buttons (☞ P.18~27)**

(5A) Buttons for ordinary operations

.....Track search button

CD .....Stop button

.....Pause button

.....Play button

DISC .....Disc select button

.....Send button (transmits the play signal for selected disc title to the main unit) (☞ P.27)

DISC TITLE .....Disc title button
(use to select disc title) (☞ P.27)

(5B) Buttons for selecting and searching for disc titles (☞ P.26, 27)

ABC ~ MARK ...Character buttons

INPUT .....Input button

.....Cursor control buttons

CUSTOM .....Custom button

DISC .....Disc button

RETURN .....Return button

SEARCH .....Search button

(5C) Buttons for other convenient functions

1/11 ~ 12/24 ...Disc and track number setting (digit) buttons

C .....Functions as "clear" button to cancel CD program steps. Also used to erase all discs selected with the custom mode.

TRACK SET .....Track set button (☞ P.21, 23)

DISC SET .....Disc set button (☞ P.21, 23, 24)

PGM .....Program set button (☞ P.23)

RND .....Random play button (☞ P.22)

REP .....Repeat play button (☞ P.22)

MODE .....CD play mode button (☞ P.20, 24)

12/24 TIME .....Time button (☞ P.25)

⑥ TIMER operation buttons (☞ P.34~37)

WAKE UP / TIMER ..... Use to select wake-up 1 or wake-up 2 timer functions.

SLEEP ..... Sleep timer

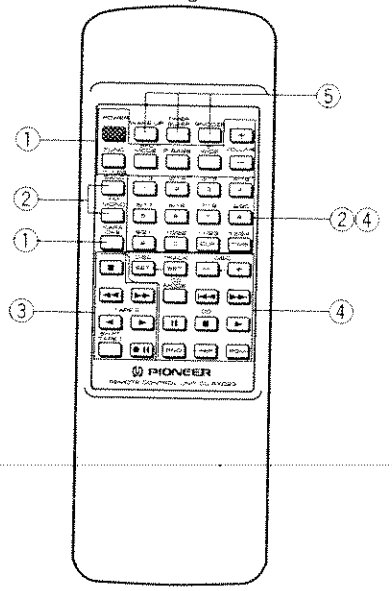
SNOOZE ..... 5-minute snooze timer (restarts unit 5 minutes after wake-up timer operates; does not function during normal play).

⑦ RESET button

This is the remote control unit's system reset button. If the remote control unit's display appears abnormal during use or when exchanging batteries, and the main unit no longer responds to commands, press this button to reset the remote control unit.

Disc titles stored in the memory are preserved even when the RESET button is pressed.

● For U.S. and Multi-voltage models



The illustration shows Multi-voltage model.

① System function buttons

POWER ..... Power switch (ON/STANDBY)

FUNC ..... Function select button

SFC MODE ..... Sound field selector (☞ P.32)

P.BASS ..... Bass boost mode button (☞ P.14)

ST. WIDE ..... Stereo wide pattern selector button (☞ P.32)

VOLUME + / − ..... Main volume

KARAOKE ..... One-touch karaoke button (☞ P.33) (Multi-voltage model only)

② TUNER operation buttons (☞ P.15, 16)

TUNER BAND ..... FM/AM selector

FM MONO ..... FM stereo/mono selector (operates only during FM stereo reception)

1/13 ~ 12/24 TIME ... Station memory call buttons

③ TAPE I, TAPE II operation buttons (☞ P.28~31)

■ ..... Stop button

◀◀ ▶▶ ..... Fast forward, rewind button

TAPE II ◀ ▶ ..... Play buttons

SHIFT TAPE I ..... To operate TAPE I, press the desired deck operation button while pressing this button. (Except for the Record/pause (●II) button)

●II ..... Record/pause button

④ CD operation buttons (☞ P.18~27)

Buttons for ordinary operations

DISC − / + ... Disc select button

◀◀ ▶▶ ..... Track search button

II ..... Pause button

CD ■ ..... Stop button

▶ ..... Play button

Buttons for other convenient functions

1/13 · ~ 10/22 0 ... Disc and track number setting (digit) buttons

1/23 CLR ..... Functions as "clear" button to cancel CD program steps. Also used to erase all discs selected with the custom mode.

DISC SET ..... Disc set button (☞ P.21, 23, 24)

TRACK SET ..... Track set button (☞ P.21, 23)

CD MODE ..... CD play mode button (☞ P.20, 24)

RND ..... Random play button (☞ P.22)

REP ..... Repeat play button (☞ P.22)

PGM ..... Program set button (☞ P.23)

12/24 TIME ..... Time button (☞ P. 25)

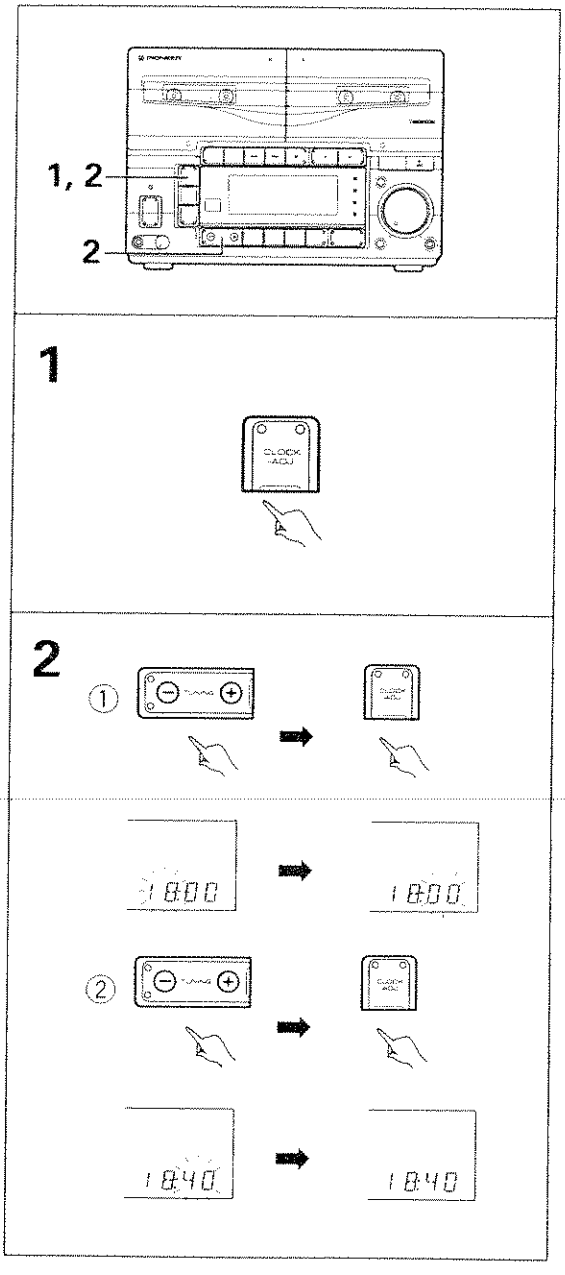
⑤ TIMER operation buttons (☞ P.34~37)

WAKE UP ..... Use to select wake-up 1 or wake-up 2 timer functions.

TIMER SLEEP ..... Sleep timer

SNOOZE ..... 5-minute snooze timer (restarts unit 5 minutes after wake-up timer operates; does not function during normal play).

SETTING THE CURRENT TIME



- Set the time if the clock shows the incorrect time, or if the clock stops due to a power failure.
- The clock displays the current time in a 24-hour format.
- Setting of the clock time cannot be performed via the remote control unit.
- Set the clock time while the unit's power is turned OFF.

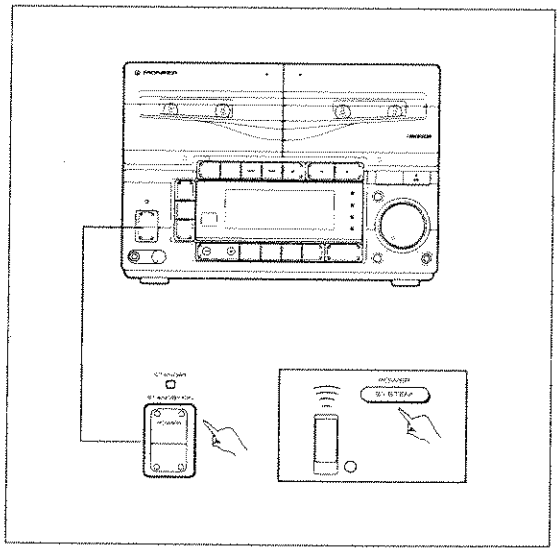
Example: To set the clock to 18:40 (6:40 P.M.)

1. **Confirm that the deck-receiver's power is turned OFF, and hold the CLOCK-ADJ button depressed for five seconds.**
   After showing the clock display, the time display will begin flashing.
2. **Set the clock to the current time.**
   ①Use the TUNING (+, –) buttons to set the "hour" digits, then press the CLOCK-ADJ button.
   ②Use the TUNING (+, –) buttons to set the "minutes" digits, then press the CLOCK-ADJ button.

NOTES:

- *Be sure the clock is set correctly since timer play and timer recording cannot be performed when the current time has not been set correctly.*
- *For the most accurate time, we recommend using an hourly time signal broadcast on radio or a telephone time service. The clock begins operating with the final press of the CLOCK-ADJ button, so pressing the button in synchrony with the sounding of the time signal will produce the most accurate setting.*
- *Pressing the CLOCK-ADJ button when the unit's power is ON will cause the time display to appear.*
- *If the power cord is accidentally disconnected or a temporary power failure occurs, the time display will show –:–. This display indicates that the clock time must be reset.*

TURNING ON THE POWER



Regarding the remote control unit operation illustration:

Operations marked with the symbol [ ] can be performed with the remote control unit. The illustration shown has been prepared in order to allow explanation of operations for model specifications designed for both the U.K. and other markets.

: The illustration shows the remote control unit for the U.K. model; while models sold in other markets may appear somewhat different, they function in the same way.

- Review the "Connections" section and confirm that the speakers and antennas are connected properly.

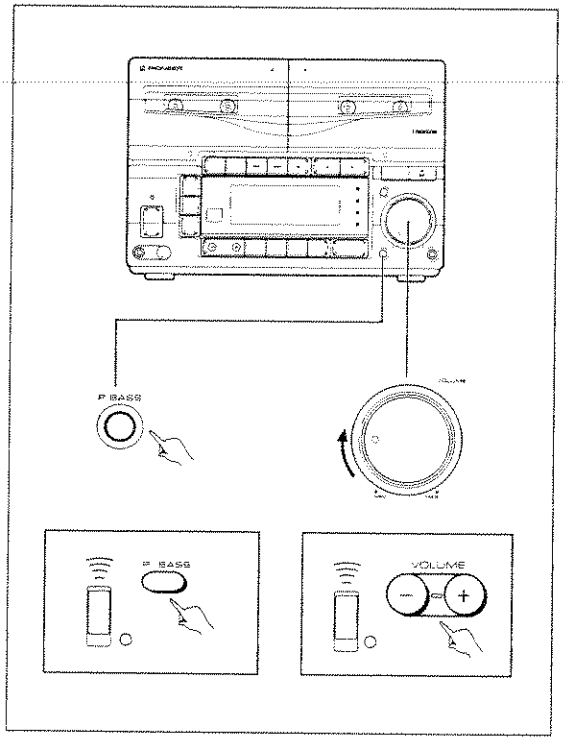
Press the deck-receiver's POWER switch.

To turn the power off:

Press the POWER switch once again. The time display will appear and the STANDBY indicator will light.

NOTE:

This system utilizes an automatic function selector, so that the input source is switched automatically whenever one of the unit's play functions (tape playback, CD play, and tuner operation (FM/AM selection)) is performed.



ADJUSTING THE VOLUME

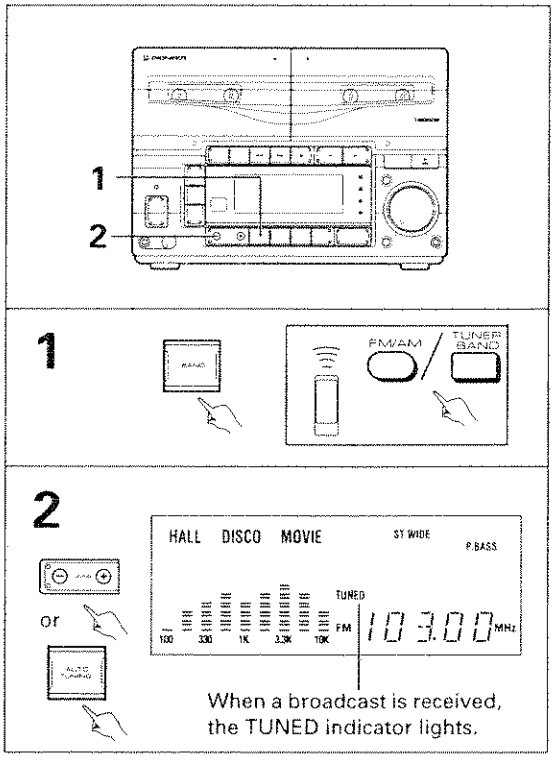
Main volume control:

Rotate the VOLUME control.

Additional Bass Emphasis:

- When the P.BASS button is pressed, the P.BASS function switches in the sequence noted; select the setting that best matches your musical preferences.
- P.BASS 1: The display indicator shows P.BASS.
- P.BASS 2: The display indicator shows P.BASS.

TO LISTEN TO RADIO (FM/AM) BROADCASTS

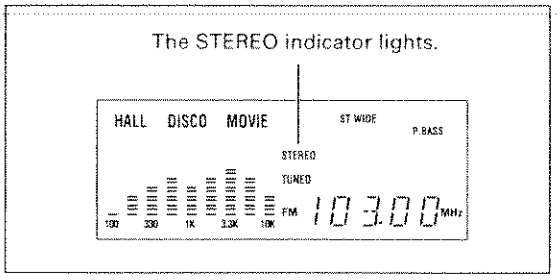


- Confirm that the radio antennas have been connected.
- Do not allow the AM antenna to touch the metal case of a tuner-amplifier, and do not locate it near a CD player, LD player, DAT player, personal computer, or television, since noise will result.

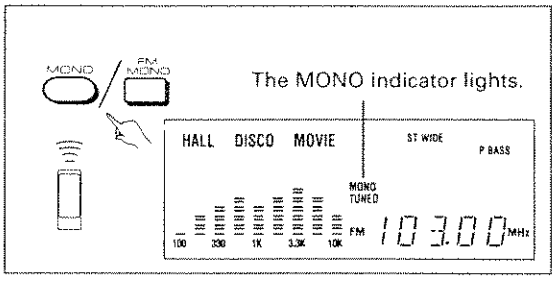
1. **Use the BAND button to select either FM or AM broadcast.**
2. **Use the TUNING (+, –) button to adjust the reception frequency.**

<Manual Tuning>:
Press the TUNING (+, –) button.
When a broadcast is received, the TUNED indicator lights.

<Auto Tuning>:
Press the AUTO TUNING button.
The reception frequency will change automatically, and stop when the first broadcast is received; the TUNED indicator will light.



■ **When receiving a stereo program on FM band:**
When a stereo broadcast begins, the STEREO indicator will light automatically and the broadcast will be heard in stereo sound. However, stereo broadcasts will not be heard if the unit is set so that the MONO indicator is lighted.



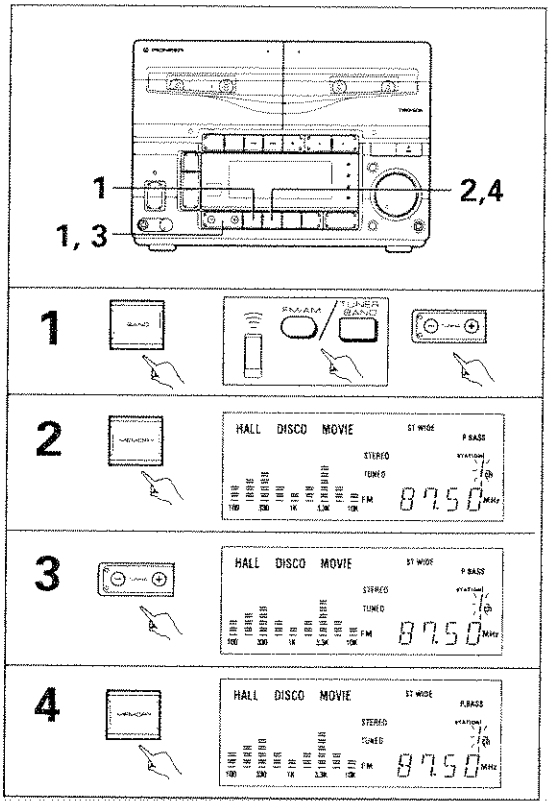
■ **Distant broadcast stations and weak signal areas:**
When receiving broadcasts from distant stations and in weak signal areas, excessive noise may be heard in stereo broadcasts. In such cases, perform the operation noted below; the sound will be heard in monaural, but the level of noise will be decreased:
Press the remote control unit's MONO button.

TO CHANGE THE FREQUENCY STEP (Multi-voltage model only)

The frequency changes in steps of 50 kHz for FM and 9 kHz for AM. If necessary, you can change the FM frequency step to 100 kHz and the AM frequency step to 10 kHz.

1. **Turn off the power.**
2. **While pressing the FREQ./STATION button, turn on the power.**
   Repeat 1-2 to reset the frequency step.

SIMPLE RADIO RECEPTION INSTRUCTIONS (FM/AM)



Manual preset memory

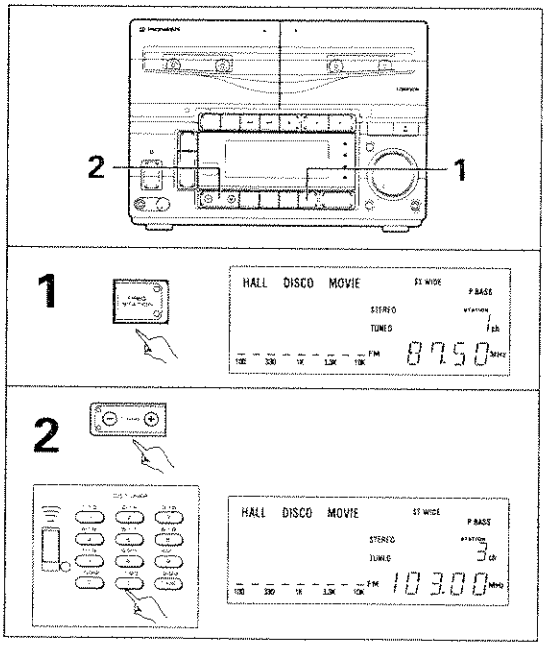
A total of 24 stations (including both AM and FM) can be stored in the station memory.

Operation example:
Storing the FM station at 87.5 MHz in the station memory location 1.

1. **Tune in the desired station.**
2. **Press the MEMORY button.**
3. **While the channel display is flashing, select the desired station memory location number.**
4. **Press the MEMORY button once again.**

NOTES:

- *The ON/OFF setting of the remote control unit's MONO button can also be memorized for each station set.*
- *Note that if you store a new station in a memory location which already contains a previously recorded station, the previous station will be replaced (erased) by the new station in the memory.*



TO CALL (TUNE IN) A PRESET STATION [STATION CALL]

1. **Press the FREQ./STATION button so that the indicator shows the STATION mode. (This operation is unnecessary when using the remote control unit)**
2. **Use the TUNING (+, –) button to select the desired station.**

When using the remote control unit, press the number buttons to select the desired station. Refer to the following chart when selecting:

Using the remote control unit to call stations stored in the station memory:

Number button / Number of times pressed	1/13	2/14	3/15	4/16	5/17	6/18	7/19	8/20	9/21	10/22	11/23	12/24
1 time	1	2	3	4	5	6	7	8	9	10	11	12
2 times	13	14	15	16	17	18	19	20	21	22	23	24

CAUTIONS REGARDING COMPACT DISC HANDLING

CARE OF DISCS

- When holding discs, do not touch their signal surfaces.
- Do not affix gummed labels or tape to the label surfaces. Also, do not scratch or damage the disc.
- Discs rotate at high speed inside the player. Do not use damaged (cracked or warped) discs.

STORING DISCS

- Always store discs in their cases vertically, avoiding locations with high heat or humidity, or extremely low temperatures.
- Always read and abide by the precautionary notes listed on disc labels.

CLEANING DISCS

- Fingerprints or smudges on the surface of a disc will not directly affect the recorded signals. Always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer periphery. Follow this by wiping the disc very gently with the accessory electrostatic charge removal sheet.
- If a disc becomes very dirty, dip a soft cloth in water, and after wringing it out well, wipe the dirt away gently. Remove any water drops with another soft, dry cloth.
- Do not use record cleaning sprays or anti-static agents on discs. Never clean discs with benzene, thinner, or other volatile solvents, since damage to the disc surface may result.

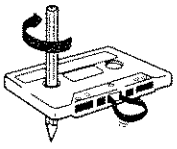
CD LENS CLEANER

The player's pickup lens should not become dirty in normal use, but if for some reason it should malfunction due to soiling, consult your nearest PIONEER authorized service center. Lens cleaners for CD players are commercially available, but special care should be exercised in their use since some may cause damage to the lens.

HOW TO HANDLE CASSETTE TAPES

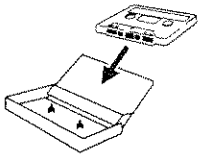
Is the tape loose, or is some of the tape sticking out of the cassette?

This will damage the tape itself. To remove the slack, insert a pencil into the spool and gently wind it.



Safekeeping

Put the cassette tape back into its case and store it in a location not exposed to magnetic fields, humidity, dust, or oil.



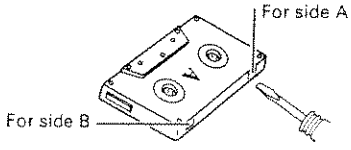
TIPS ON USING CASSETTE TAPES

- Leader tape (which does not allow sound to be recorded over it) is provided at the beginning of a cassette tape. Start recording after allowing the tape to run for approx. 5 seconds so that the leader tape clears the recording head.
- Forwarding or reversing the cassette tapes before recording prevents damage to the unit caused by tape slack.

Do not use tapes longer than 90 minutes.
Since tapes longer than 90 minutes are so thin, they easily jam in the pinch roller and capstan, and they are susceptible to other trouble such as irregular winding. Try not to use them with this unit.

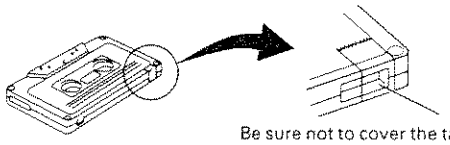
How can you prevent accidental erasure?

When the tab on the cassette shell is broken out with the tip of a screwdriver, it will not be possible to activate the recording function even by pressing the ●II button, so valuable recordings will not be erased in error.



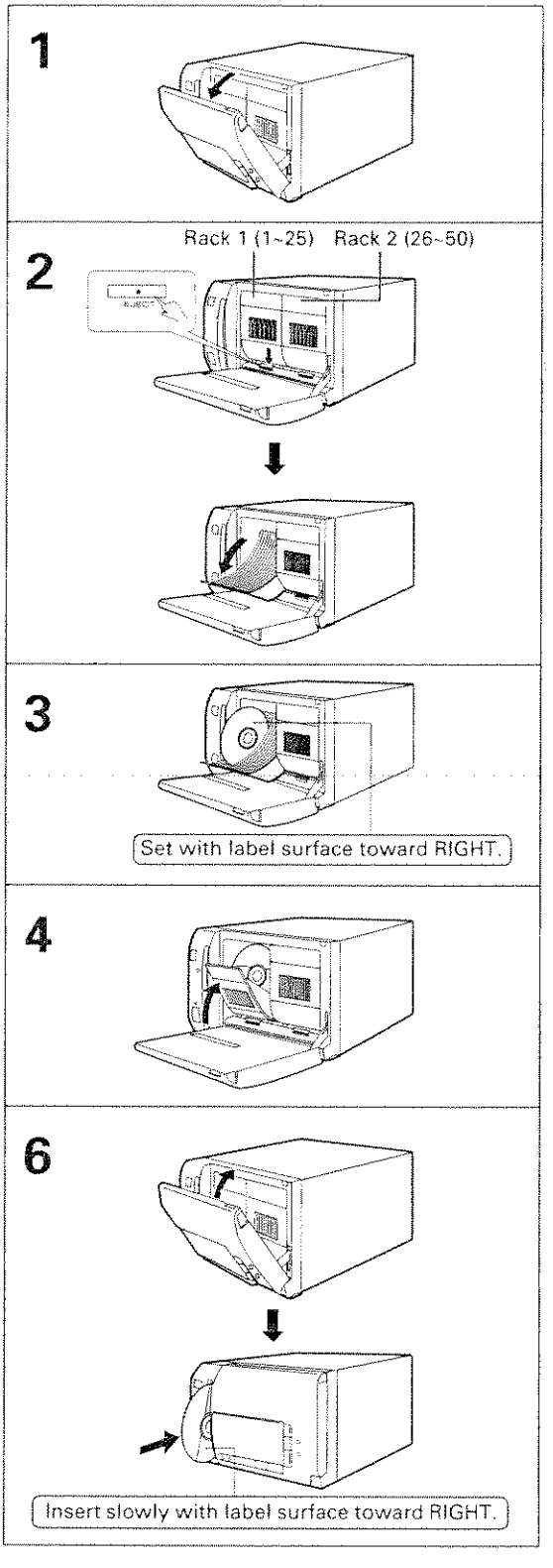
When you want to record again on a cassette with broken erasure prevention tabs, cover the hole with a double layer of adhesive tape.

With TYPE II (HIGH/CrO_2) tape, be sure not to cover the tape-type detection holes.
If they are covered, the auto tape selector function will not operate correctly.



Be sure not to cover the tape-type detection holes.

TO LISTEN TO A COMPACT DISC (CD)



BEFORE OPERATING THE PLAYER

Load discs in the rolling rack

Load your favorite discs in rolling racks 1 and 2 (Use 12-cm (5-inch) discs only).

Each rolling rack holds up to 25 discs, for a total of up to 50 discs. The grooves provided in the racks for discs are numbered consecutively, beginning from the left edge of the rack.

Rack 1: Discs 1-25
Rack 2: Discs 26-50

A rolling rack cannot be opened when one of its discs is being played. If the door panel is opened during play, the display will light to indicate the side of the rack currently in use and which must not be opened (for example, during playback of the disc in rack 1, RACK 1 will appear on the display). The rack whose disc is not being currently played can be opened. Both racks can be opened when the player is stopped.

Insert a CD slowly into the Plus-1 disc slot.

Use this slot for easy listening to a single disc (Use 12-cm (5-inch) discs only).

1. **Pull the door panel open toward the front.**
2. **Press the EJECT button (⏏) for the desired rack to open the rolling rack on that side.**
3. **Insert discs with label surfaces toward the right.**
4. **Push the rack back to its original position.**
5. **Repeat steps 2-4 to fill the other rack with discs as desired.**
6. **Close the door panel.**

Insert a disc slowly in the Plus-1 disc slot.

When a disc is loaded, the Plus-1 disc set indicator will light.

NOTES:

WHEN THE LOADED DISCS ARE ATTRACTED TO EACH OTHER, ALWAYS WIPE BOTH SIDES WITH THE ELECTROSTATIC CHARGE REMOVAL SHEET (SUPPLIED) WITH SOFT TOUCHES.

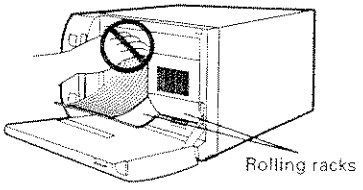
- *A disc may get natural static electricity due to environmental condition. Loading a disc with electrostatic charge may cause a malfunction.*
- *A disc will not be played if its label surface is facing toward the left. Be sure that all discs are loaded with their labels toward the right. Close the rolling rack gently and completely.*

To remove discs:

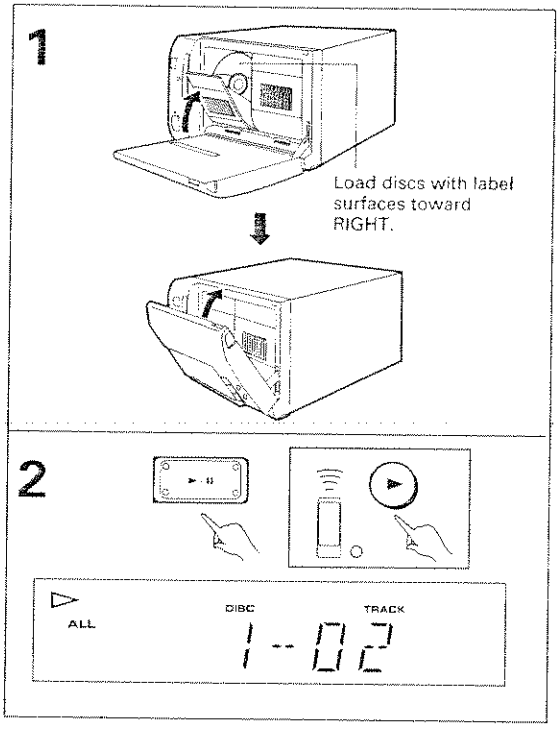
- To remove the discs loaded in the rolling racks, press the stop button (■) and wait for at least ten seconds (to allow the player to come to a full stop), then open the door panel and press the EJECT button (⏏).
- To remove a disc in the Plus-1 slot, press the EJECT button (⏏).

NOTES:

- *Take care not to pinch your fingers when closing the door panel and rolling racks.*



- *Never place any objects other than compact discs inside the player.*
- *Do not load more than one disc in each rolling rack groove, or in the Plus-1 slot.*
- *Remove all discs from the rolling rack before moving the CD player.*
- *Do not set any objects on the door panel when it is opened.*
- *Do not load 8-cm (3-inch) CDs or 8-cm (3-inch) CD adapters.*



TO LISTEN TO A DISC BEGINNING FROM TRACK 1

1. **Load the disc in the rolling rack.**
   Close the rack and door panel after loading discs. When playing the disc in the Plus-1 disc slot, insert a disc in the slot (☞ P.18).
2. **Begin play**
   Play will begin from track 1 of the lowest-numbered disc.
   During play, the currently playing disc and track numbers will be displayed. (In the case of the Plus-1 disc, the disc number is indicated as "P0").
   - By previously setting desired play modes, play will begin in the selected modes (☞ P.20). When Plus-1 disc is selected however, play will automatically be set to the single play mode.

NOTES:

- *If the door panel or one of the rolling racks is open, normal play and random play cannot be performed. Before beginning play, be sure that the rolling racks and door panel are closed.*
- *When the CD in the Plus-1 slot is in the ejected status (protruding from slot), pressing the play/pause button (▶/II) will cause the disc to be automatically drawn in, and playback will begin of the disc indicated on the display.*

To stop play:

Operation	Button to press
Stop play	
Pause play	
Recommence play	or

To search for a particular track:

Operation	Button to press
Track search	Press and release quickly
Fast forward/reverse	Hold depressed during play mode

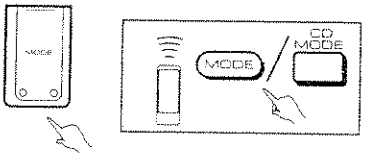
Last Disc Memory

- When the stop button (■) is pressed on the main unit or on the remote control unit, or when the power is turned off, the unit stores in memory the number of the disc whose play was last stopped. This memory is called upon when the play/pause button (►/II) is next pressed, so that play begins from the same disc that was playing earlier.
- When the program mode is in effect, play is resumed from the beginning of the stored program.
- The last-disc memory also works within other play modes (all play, single play, or custom).
- The last-disc memory does not operate within the random play mode.
- If a disc is loaded into the Plus-1 slot while the unit is stopped, the previous last-disc memory will be canceled.

1. During normal play, if the stop button (■) is pressed on the main unit or on the remote control unit, the number of the currently playing disc is stored in the last-disc memory, and the unit enters the stop mode.
   - Even when the power is turned off, the player's memory stores the play mode, program mode, custom mode, and last-disc information.
2. When the play/pause button (►/II) or the remote control unit's play button (►) is subsequently pressed, play will begin again from the disc which was previously stopped.
   (If the power has been turned off, first press the POWER switch to restore power, than press the play/pause button (►/II) or the remote control unit's play button (►)).

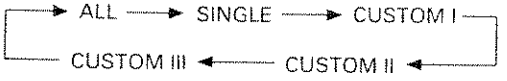
SELECT THE DISC PLAY MODE

To select the play mode, press the MODE button on the main unit or on the remote control unit while the unit is stopped or in the play mode; the play mode will change in the following sequence:

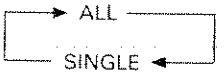


ALL:	Plays all discs loaded
SINGLE:	Plays only the first disc
CUSTOM (I ~ III):	Plays custom selection of discs (☞ P.24)

During stop:



During play:

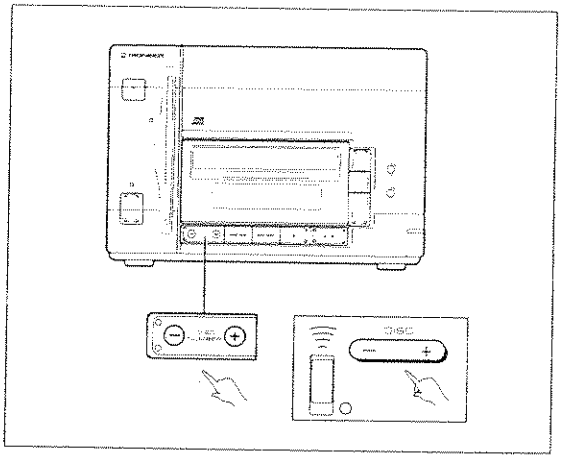


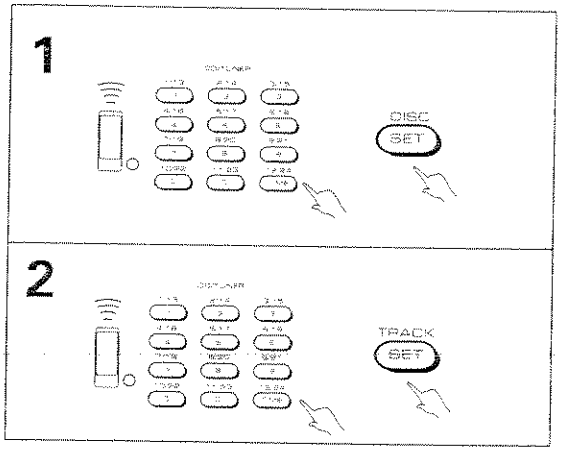
- During normal play, if the single mode is selected, the single disc play mode will be set for the currently playing disc.
- If the MODE button is pressed when the unit is in the program mode, the program contents will be canceled.
- In the custom mode, play will begin from the lowest disc number in the custom disc selection.

NOTES:

- *The CUSTOM mode cannot be selected when the unit is currently playing a disc.*
- *When the power is first turned on, play will begin from the last mode selected previously.*
- *If no play mode has been selected, play begins by default in the all disc mode.*
- *The MODE button does not operate during playback of the disc in the Plus-1 slot.*

CONVENIENT CD FUNCTIONS





TO BEGIN PLAY FROM A CERTAIN DISC (DISC SEARCH)

During play or the pause mode, press the DISC NUMBER (+, –) button to select a desired disc. (To select during the pause mode, also press the play/pause button (►/II). To select the disc loaded in the Plus-1 slot, press "0" (display will show "P0").
Play begins from the first track of the selected disc.

- When using the remote control unit, use the DISC number (+, –) button to select the desired disc, then press the play button (►) to begin play.

TO BEGIN PLAY FROM A SPECIFIC TRACK (SINGLE-TRACK PLAY)

- Use the remote control unit with the function select button (FUNC) set to "CD."

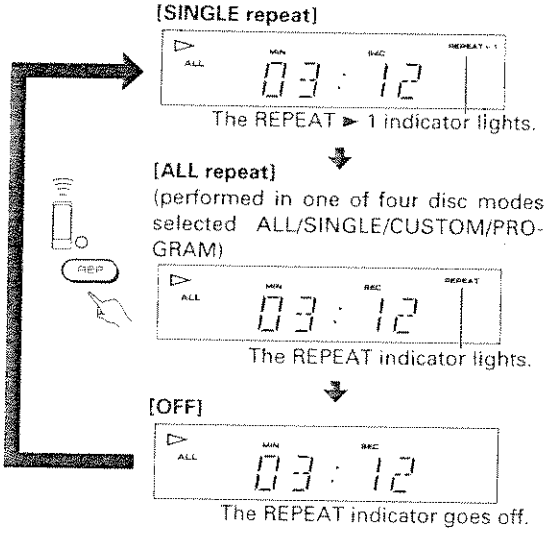
1. **When the unit is either stopped or playing, use the number buttons to select the number of the desired disc, then press the DISC SET button within five seconds.**
   To select a disc number, perform the operation shown.
   To select disc No. 37:
2. **Use the number buttons to select the number of the desired track on the previously selected disc, then press the TRACK SET button within five seconds.**
   If you mistakenly press the wrong track number, input the correct number once again.
   To select a track, perform the operation shown.
   To select the third track:
   To select the 20th track:

NOTES:

- *If the DISC SET button or the TRACK SET button is not pressed in 5 seconds after the number buttons are pressed, the display returns to the previous mode.*
- *The single-play operation cannot be performed during program play.*
- *Track numbers can be selected in the range 1-99. If the designated disc is not loaded, or if it is loaded backwards, the display will indicate "**-no"; in the ALL or CUSTOM modes, the player will move to the next disc. In the single mode, the player will stop. If the Plus-1 disc is loaded backwards, the display will indicate "P0-no?", the disc will be automatically ejected, and the player will stop.*
- *In the CUSTOM mode, track selection can be performed for the tracks on the selected discs.*
- *If the remote control unit's pause button (II) is pressed before selecting numbers, the unit will enter the pause mode at the beginning of the selected track. Press the pause button (II) or play button (►) once more to begin play of the selected track.*

REPEAT PLAY

- Perform this operation with the remote control unit during play, press the repeat button (REP) on the remote control unit; the repeat mode will change in the following sequence:


[SINGLE repeat]
The REPEAT ► 1 indicator lights.
[ALL repeat]
(performed in one of four disc modes selected ALL/SINGLE/CUSTOM/PROGRAM)
The REPEAT indicator lights.
[OFF]
The REPEAT indicator goes off.

[SINGLE repeat]
When this function is selected during normal, random or program play modes, the currently playing track, or the track about to be selected, will be played repeatedly.

[ALL repeat]

ALL disc mode:	All tracks of all discs loaded (1-50) will be played back repeatedly.
SINGLE disc mode:	All tracks of the single selected disc will be played back repeatedly.
CUSTOM disc mode:	All tracks of the custom selection of discs will be played back repeatedly.
PROGRAM disc mode:	All programmed tracks will be played back repeatedly.

[OFF]
The repeat mode is canceled and normal play begins.

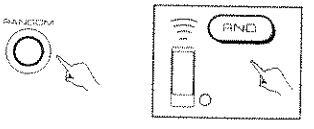
NOTE:
To stop all play, press the stop button (■).

RANDOM PLAY

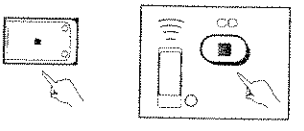
- Depending on the playback mode, the tracks on the loaded disc will be played back in random order (once each). When all tracks on the disc have been played back, the player will stop.

Play mode	Results
ALL	Random play of tracks on all discs 1-50 (maximum 50 tracks; does not include the Plus-1 disc).
SINGLE	Random play of the single selected disc.
CUSTOM	Random play of the custom selection of discs (maximum 50 tracks).

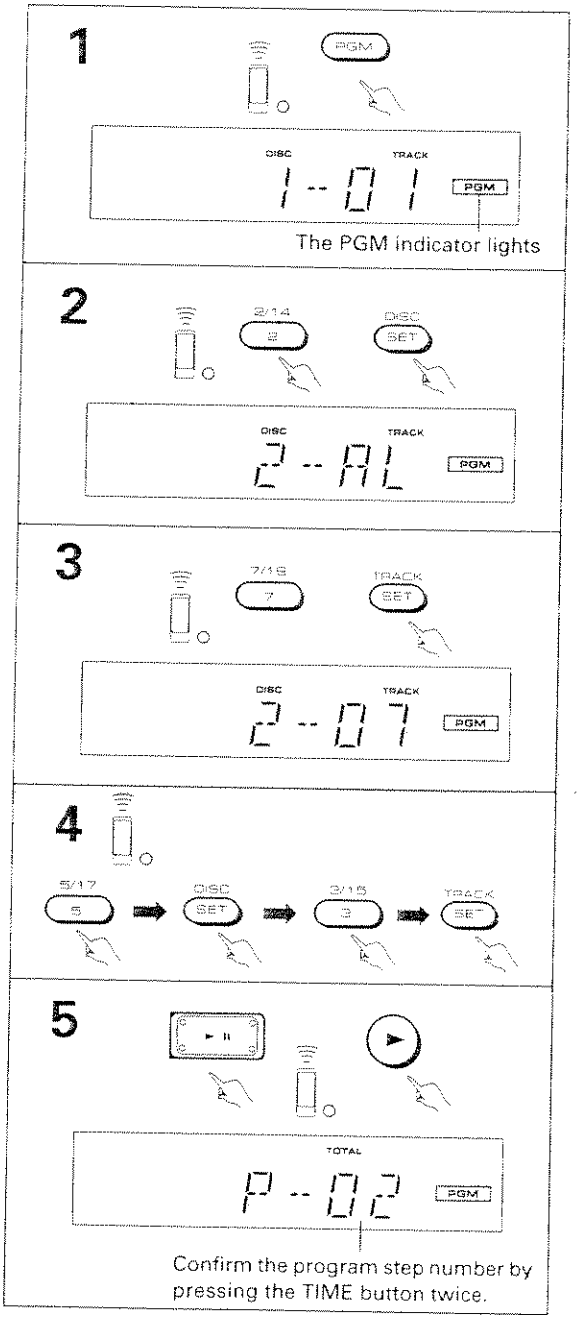
■ **Press the RANDOM button when the unit is playing or in the stop mode.**
The RANDOM indicator lights.



■ **To stop random play:**
Press the stop button (■).
Random play is canceled and playback stops.



NOTES:
- *A programmed selection of tracks (program play) cannot be played in random order. (If the RANDOM button is pressed during program play, the program will be canceled and the ALL mode random play will commence.)*
- ***If the REP button is pressed during random play, all tracks on the disc are played in random order repeatedly (random repeat).***
- *During random play, if the DISC NUMBER button (+, –) is pressed, single-track play is selected (☞P.21), or the program button (PGM) is pressed, the random play function will be canceled.*
- *If the MODE button is pressed during random play, random play is performed in the selected mode (not available during the CUSTOM mode).*
- *To perform random play of disc in the Plus-1 slot, use the remote control unit's number buttons to select "0"; the SINGLE disc random play mode will be selected automatically.*
- *In the ALL mode or CUSTOM mode, if less than fifty discs are loaded, the same track may be played more than once.*



PROGRAMMED PLAY

- A program can be constructed with up to 32 steps.

Example: To program the 7th track of the 2nd disc (step 1), and the 3rd track of the 5th disc (step 2):

1. **With the unit stopped, press the program (PGM) button.**
2. **Use the number buttons to select the disc number (to select the CD in the Plus-1 slot, press "0" (the display shows "P0")), then press the DISC SET button.**
   From here, go straight to step 5 if you wish to program all tracks on the disc.
3. **Use the number buttons to select the desired track, then press the TRACK SET button.**
   Repeat step 3 to program other tracks on the same disc. A single "pause" can be programmed if desired, by pressing the remote control unit's pause button (II).
4. **Repeat steps 2 and 3 to program tracks on other discs.**
5. **When all desired tracks have been programmed, begin playback.**
   The programmed tracks will be played in the order they were programmed.

- **To cancel a program:**

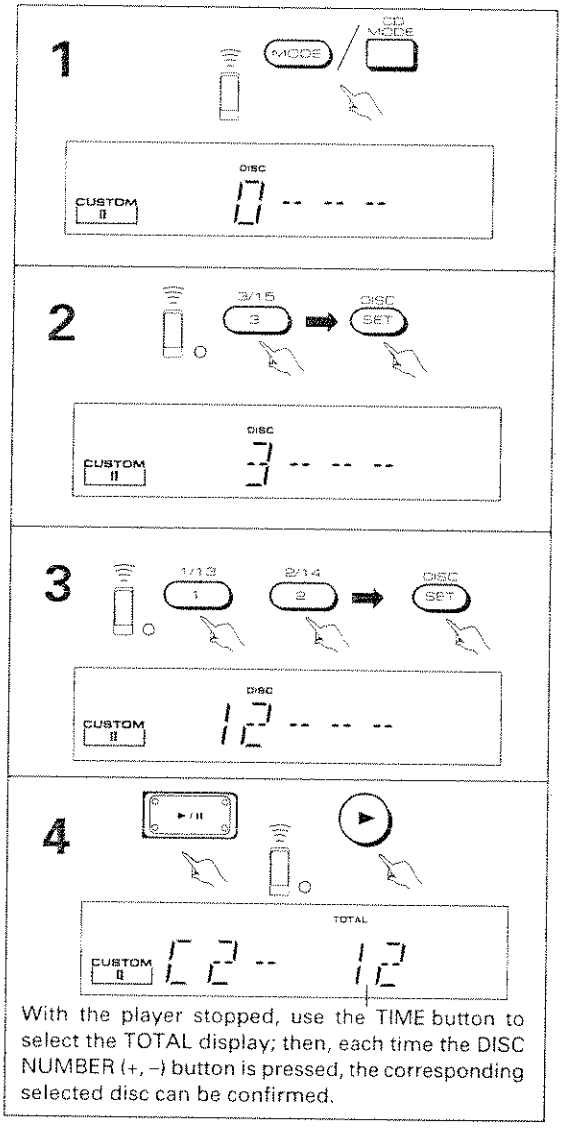
During play, press the stop button (■) twice (or once if the unit is stopped), or press the DISC number (+, –) button. If the unit is playing or already stopped, press either the MODE button or the random button (RND).

- **To cancel a single program step**

While still programming, or during playback, press the remote control unit's clear button ⌫ ; each time the button is pressed, the steps will be canceled, beginning with the last programmed step. (The CLEAR button on the main unit may also be used this way).

NOTES:

- *After discs in one of the rolling racks have been programmed, if the rolling rack on that side is opened, the disc program for that side will be erased.*
- *During play, if one of the programmed discs is not physically present, or is loaded incorrectly in the player, the display will show "**-no", and the incorrect step will be automatically canceled; the player will then advance to the next programmed step.*
- *In steps 2 and 3 above, the DISC number (+, –) button or track search button (|◄◄, ►►|) can also be used to designate disc and track numbers. Two seconds following selection using these buttons, the designated numbers are set automatically.*
- *If the PGM button is pressed twice during normal play, the currently playing track will be programmed (direct programming).*



With the player stopped, use the TIME button to select the TOTAL display; then, each time the DISC NUMBER (+, –) button is pressed, the corresponding selected disc can be confirmed.

CUSTOM DISC MODE

- This function is used to select all tracks on up to 50 discs (excluding the Plus-1 disc). Individual track numbers cannot be designated.
- Up to three custom groups can be designated (I, II, III).

Example: To designate discs 3 and 12 in custom group II.

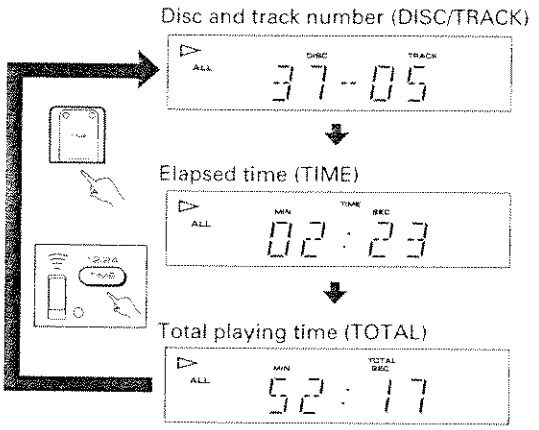
1. **With the unit in stop mode, press the MODE button and select CUSTOM mode II.**
2. **Use the number buttons to select the desired disc number, then press the DISC SET button.**
3. **Repeat step 2 to select other discs.**
4. **After selecting all discs for the custom group, begin play.**
   Play will begin from the lowest-numbered disc in the custom group.

NOTES:

- *Even after completing the selection process, other discs may be added so long as no more than 50 discs are selected.*
- *In step 2, after using the DISC NUMBER (+, –) button to select the disc, you may either press the DISC SET button, or merely wait for two seconds to elapse; either method will result in recording of the disc selection.*
- *If the CLEAR button is pressed, all selected discs will be canceled. A single disc alone cannot be changed or canceled from a custom group.*

USING THE TIME BUTTON

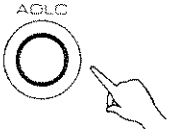
During play, each time the TIME button is pressed, the display changes in the following sequence:



NOTE:

In the program mode, the total time display shows the number of program steps, and in the custom mode, it shows the number of custom group discs. (☞ P.23, 24). (This display operates only when the unit is stopped.) During playback, the TOTAL time display is canceled after five seconds.

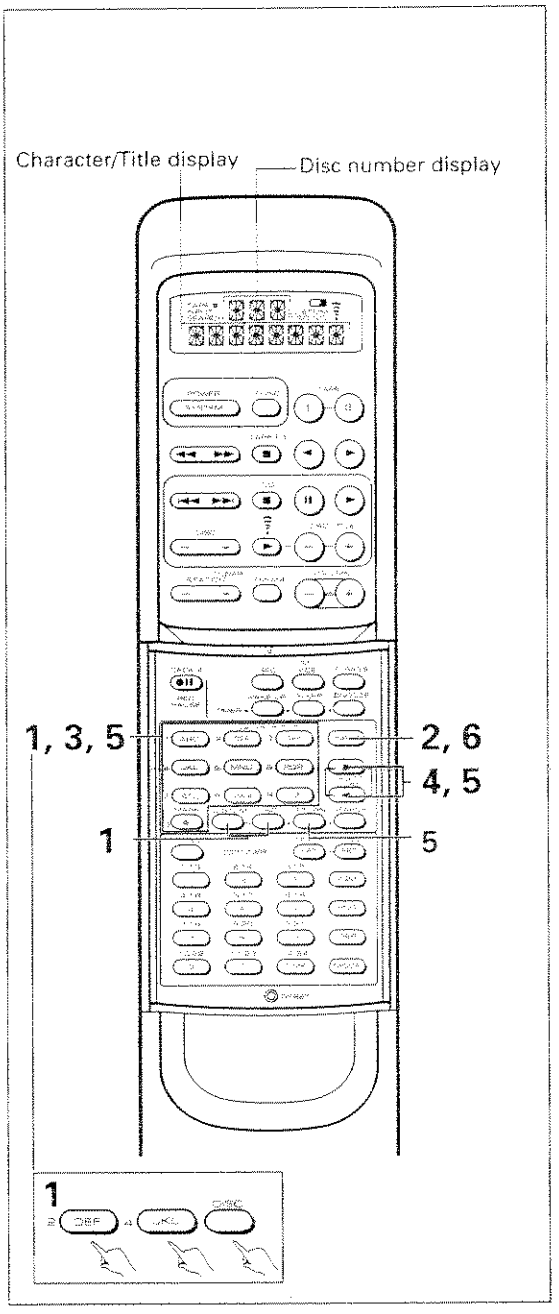
TO SET A MORE COMFORTABLE LISTENING LEVEL FOR DISCS WITH DIFFERENT DYNAMIC RANGES (ADLC)*



Some discs may have a considerably different range of sound volume compared to other discs. In this case, adjustment of the sound volume becomes necessary for each disc played. This is particularly troublesome when performing programmed play or random play, since the sound volume must be readjusted for each successive track. In this kind of case, press the ADLC button and the discs' sound level will be adjusted automatically for optimum listening comfort. When the ADLC function is selected, the ADLC indicator will appear in the display.

- To cancel the ADLC function, press the ADLC button once again so that the ADLC indicator disappears.
- Depending on the disc, the ADLC function may produce some unnatural sound response; if this occurs, set the ADLC function to OFF.

* ADLC stands for "Automatic Digital Level Control."



NOTES:

- *A maximum of 100 titles can be stored in the remote control unit. Although only 50 discs can be loaded at one time, memory storage locations 51-100 can be used to store the titles of discs not currently loaded.*
- *Titles cannot be input for the Plus-1 disc (disc number "0").*

STORING AND CALLING DISC TITLES (U.K. model only)

The remote control unit can be used to store and call up the names of artists, music genres, and other disc information. This is a convenient function when used together with the various play modes.

Usable characters and corresponding input buttons:

- Up to 8 characters can be input.
  English characters: A-Z (~)
  Numerals: 1-9, 0 (~)
  Symbols: (space), −, +, ', /, (,), *, ( )

Inputting desired characters (results are shown in the remote control unit's display)

Example: Input title "MADONNA" for disc no. 24

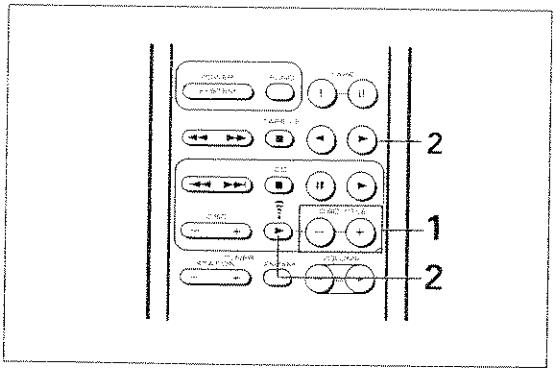
1. **Use the character buttons to select the disc number, then press the DISC button.**
   To input custom titles, use the character buttons to select the disc number, then press the CUSTOM button. Custom titles can be selected from I to III.
2. **Press the INPUT button.**
   The unit enters the title input mode.
3. **Use the character buttons to input characters.**
   Example: to input "M"
   Press the button to select "M".
   Each time the button is pressed, the character changes in sequence from "5" to "M" to "N" to "O."
   The other character buttons change in the same way, cycling through the range of characters shown on the respective button.
   Press the button to select from one of seven special symbols.
4. **Press the cursor (SELECT WORD) buttons (◄, ►) to input the character selected in step 3.**
   Then, input the next character desired. If you wish to go back to erase or change a previous character, press the ◄ button.
5. **Repeat steps 3 and 4 until all desired characters are selected.**
   To cancel the operation midway through, press the RETURN button.
6. **Finish by pressing the INPUT button.**

Copying and erasing titles:

Once a title has been stored in memory, it can be copied to other disc numbers if desired. The method used for erasing titles can be called "copying a title without a name."

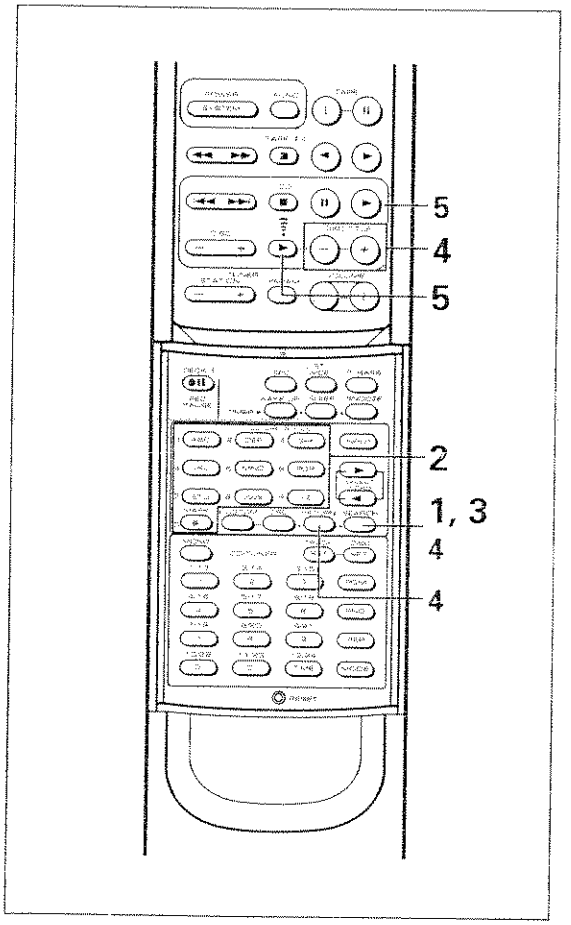
Both disc titles and custom titles can be copied:

1. Select the number of the disc whose title you wish to copy (if you select a disc number which has no title, the erasing mode will be selected). Then press the DISC or the CUSTOM button.
2. Press the INPUT button.
3. Press the DISC or the CUSTOM button.
4. Use the character buttons to designate the disc number to which you wish to copy the selected title. (In the erase mode, select the disc number you wish to erase.)
5. Press the INPUT button.



Playing discs by title (sequential search)

1. **Press the remote control unit's DISC TITLE buttons to select the title of the disc you wish to play.**
   Each time the button is pressed, a disc number and disc title appear in the display.
2. **Point the remote control unit toward the player and press the send button ( ).**
   Playback will automatically begin when the play mode selected is ALL or SINGLE; in the CUSTOM mode, additional inputs can be made to the custom group. (To play the custom group, press the play button (►).)

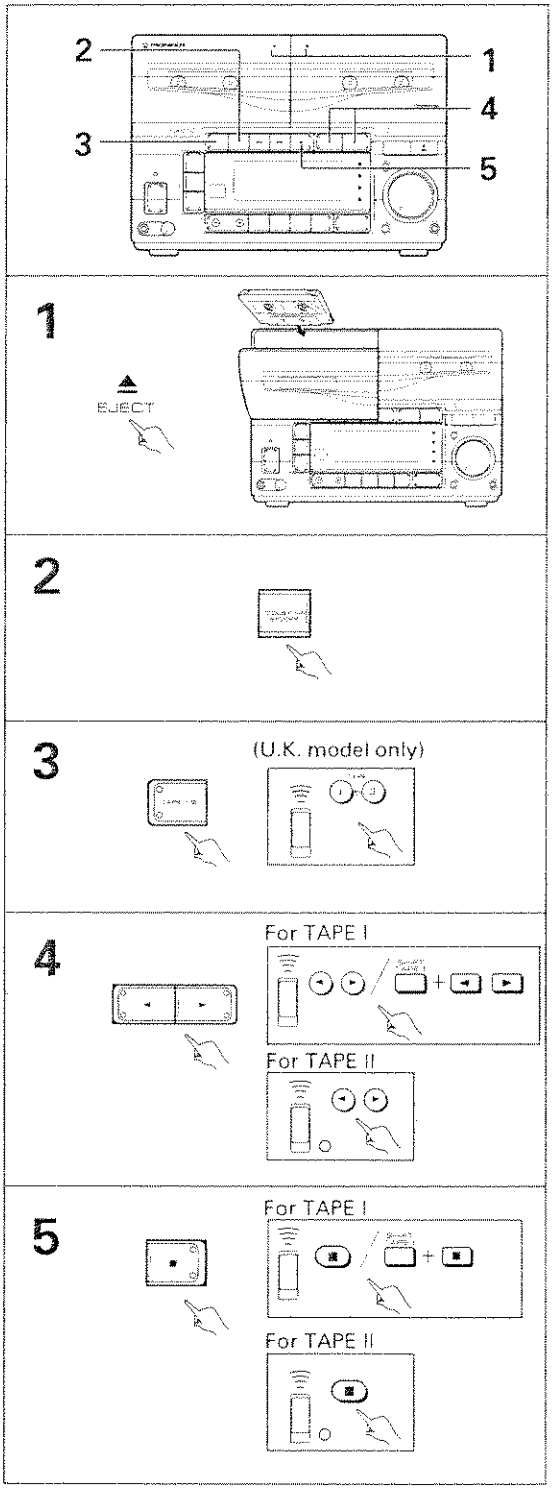


Playing discs by title (initial character search; can be used to search for all titles with the same initial character)

Example: To search for the initial "M" of the disc title "MADONNA"

1. **Press the SEARCH button.**
2. **Use the character buttons to select the initial letter in the title.**
   Press the ▫ button to select "M".
   Each time the button is pressed, the character changes in sequence from "5" to "M" to "N" to "O." The other character buttons change in the same way, cycling through the range of characters shown on the respective button.
   Press the button to select from one of seven special symbols.
3. **Press the SEARCH button.**
   When the character is found, the disc or custom group number will be displayed, together with the disc title. If the character is not found, the "NOT FIND" message will be displayed.
4. **Use the DISC TITLE button to select the desired title.**
   Each time the button is pressed, those titles with the same selected initial letter are displayed in sequence (in the discs' numerical order).
   - If you make a mistake inputting the search character: press the SEARCH button to return to step 1.
   - To cancel the operation midway through, press the RETURN button.
5. **Point the remote control unit toward the player and press the send button ( ).**
   Playback will automatically begin when the play mode selected is ALL or SINGLE; in the CUSTOM mode, additional inputs can be made to the custom group. (To play the custom group, press the play button (►).)

TO LISTEN TO A CASSETTE TAPE



BASIC FUNCTIONS

- Press the EJECT mark (⏏) only after confirming that deck I and II are stopped.
- Tapes used for playback may be either Type I (normal), Type II (High/CrO_2), or Type IV (Metal).

1. **Load a pre-recorded tape in either deck I or II.**
   If tapes are loaded in both decks I and II, the following kind of relay playback can be performed (maximum 32 sides):

   Deck I forward (►) → Deck I reverse (◄) → Deck II reverse (◄) ← Deck II forward (►)

   If a tape is loaded in one deck only, a maximum of 16 sides can be played in relay.
   Press the EJECT mark (⏏) to open the cassette door.
   Insert the pre-recorded tape, and close the cassette door with your hand.
2. **Use the DOLBY NR button to select the desired noise reduction mode.**
   - During playback set the DOLBY NR button to the same mode used during recording. Each time the button is pressed, the mode changes in the following order: → B → C → OFF →

     Simultaneously, the DOLBY mark will light together with the appropriate indicator (B or C).
3. **If tapes are loaded in both decks I and II, press the TAPE 1/2 button to select the tape to be played back first.**
   Each time the TAPE 1/2 button is pressed, the deck selection alternates as follows:

   → TAPE 1 → TAPE 2 →

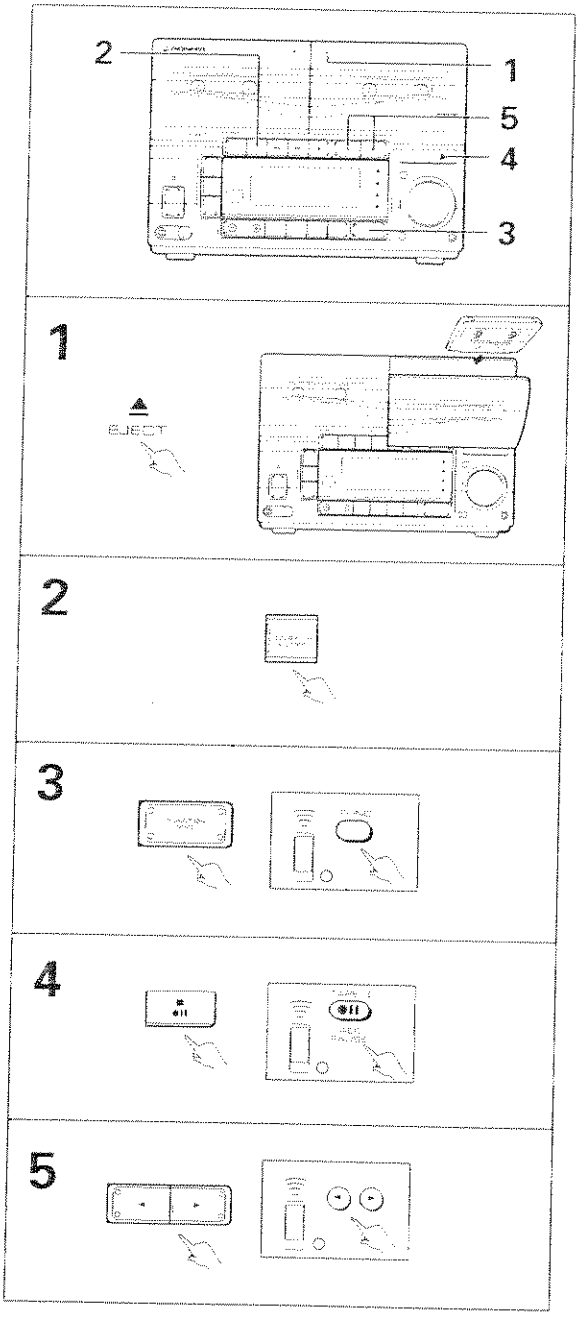
   When the remote control unit's TAPE I/II button is used, the remote control unit's display will change as follows (U.K. model only):

   → TAPE I → TAPE II →
4. **Begin playback.**
   Press the play button (◄, ►).
   The indicator will display the direction of tape travel.
5. **To stop playback:**
   Press the stop button (■).

NOTES:

- *Do not press the EJECT mark (⏏) during tape operation.*
- *Pressing the ◄◄, ►► button will cause the tape to be fast forwarded or rewound in the direction of the arrow pressed.*

TO RECORD ON CASSETTE DECK II



- Tapes used for recording may be either Type I (normal) or Type II (High/CrO_2).

1. **Load a tape for recording into deck II.**
   - Wind the tape past its leader portion so that the magnetic surface is exposed. (☞ P.17)
   - Recording cannot be performed on a tape if the accidental erasure prevention tab has been broken out. (☞ P.17)

   Press the EJECT mark (⏏) to open the cassette door.
   - Insert the tape for recording, and close the cassette door with your hand.
2. **Use the DOLBY NR button to select the desired noise reduction mode.**
   - Each time the button is pressed, the mode changes in the following order:

     B → C → OFF

     Simultaneously, the DOLBY mark will light together with the appropriate indicator (B or C).
3. **Use the FUNCTION select button to select the input source.**
   - For tape copying (recording from deck I to deck II), use the tape copy function. (☞ P.30)
4. **Press the record/pause button (●II).**
   The record/pause indicator lights.
   - The deck will enter the recording-standby mode, and the tape will not begin moving yet.
5. **Press the play button (◄, ►) to begin recording.**
   - The sound can be heard from the source component.
   - Microphone-mixing sounds can also be recorded if desired (Multi-voltage model only) (☞ P.33).

To stop recording:

Operation	Button to press
To stop recording	
To pause recording	
To resume recording	

About the Beat Cut filter:

When recording an AM broadcast, if considerable noise is present, it can be reduced on the tape by following the procedure noted:

1. Turn off the power to the deck-receiver.
2. While holding the BAND button depressed, press the power to turn on the deck-receiver. (The BEAT CUT indicator will appear in the display.)

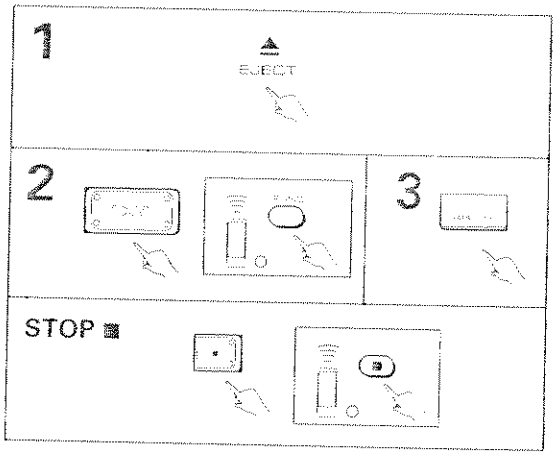
Perform the following steps once again to return the receiver to its original setting status.

TO RECORD ON CASSETTE DECK II

NOTES:

- *Once recording has begun, the function select button will not operate to change the input source.*
- *While in the recording and recording-standby modes, the sound field control and stereo wide functions do not operate. If the P.BASS function is selected, it will be heard during recording, but its effect will not be recorded on the tape. Similarly, the one-touch karaoke ON/OFF function cannot be switched while in the recording or recording-standby modes.*
- *This component features an Auto Level Control (ALC) function which adjusts the recording level automatically.*

TO RECORD FROM DECK I TO DECK II (TAPE COPYING)



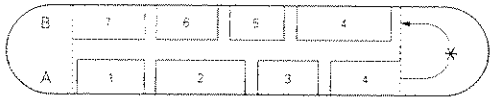
- When performing tape copying, use deck II for recording.
- Tape copying always begins from the forward (►) direction.

1. **Load the pre-recorded tape to be copied into deck I, and a fresh tape for recording into deck II.**
   - Confirm the cassette type and direction of tape travel when loading tapes.
   - Forward the tape used for recording past its leader portion so that the magnetic surface is visible.
2. **Set the FUNCTION select button to TAPE.**
3. **Press the ASES/COPY button.**
   The COPY indicator lights and tape copying begins automatically.

To stop recording:
Press the stop button (■).

NOTE:
The Dolby noise reduction function is set automatically to match the status of the tape being recorded, regardless of the manual setting of the DOLBY NR button.

RECORDING FROM A CD TO CASSETTE TAPE



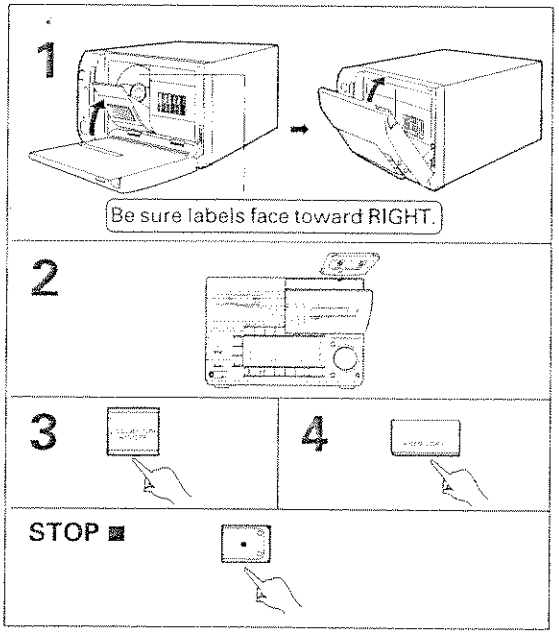
A, B: Indicates the side of the tape.
1–7: Indicates the number of the track.
*: Indicates the leader part of the tape.

AUTOMATED EDIT RECORDING (A.S.E.S)

■ What is A.S.E.S.?

- A.S.E.S. is a special function which automatically programs the recording of CD tracks, so that the track which is only partially recorded at the end of cassette side A is recorded again in full at the beginning of cassette side B.
- When the A.S.E.S. function is used, if the playback mode has been selected on the CD player, recording will be performed in the sequence of the playback mode:

ALL: All discs recorded A.S.E.S.
SINGLE: Only the displayed disc is recorded A.S.E.S.
CUSTOM (I-III): The selected custom disc group (I-III) is recorded A.S.E.S.
PROGRAM: The selected tracks only are recorded A.S.E.S.



NOTES:

- *During A.S.E.S. operation, the only CD player controls which function are the POWER switch, EJECT button, and stop button (■).*
- *By setting the CD player for all-track repeat in one of the disc modes, you can record a tape fully without leaving any remainder (repeat A.S.E.S.).*
- *During use of the A.S.E.S. function, near the end of a tape the CD player may skip to the next track, or the CD may be interrupted after ending its play. In this case, record the remaining tracks manually, without use of the A.S.E.S. function.*
- *During A.S.E.S. operation, the CD player's ADLC does not operate.*

USING THE A.S.E.S. FUNCTION

- Begin by pressing the FUNCTION button so that CD is selected.

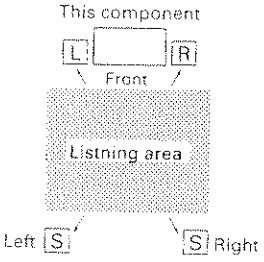
1. **Load discs in the CD player.**
   - Use the program function to record tracks in a specific order.
   - When recording beginning with a specific disc, use the DISC NUMBER (+, –) button to select the disc number.
     To select the Plus-1 disc, insert a disc slowly into the Plus-1 slot, and press "0" (the display shows P0).
2. **Load a fresh recording tape into deck II.**
   - Recording always begins from the forward direction (►), so be sure to confirm the correct loading direction.
3. **Set the DOLBY NR button to the desired noise-reduction mode.**
   - Each time the button is pressed, the mode changes in the following order:

     ► B → C → OFF

     Simultaneously, the DOLBY mark will light together with the appropriate indicator (B or C).
4. **Press the ASES/COPY button.**
   The ASES indicator lights and the ASES operations begins.
   - **To interrupt the A.S.E.S. operation:**
     Press the deck receiver's stop button (■) or the CD player's stop button (■).

SOUND FIELD EFFECTS

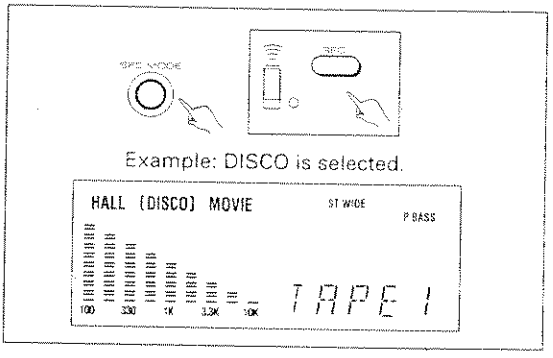
Before using this component's sound field effects, you should learn about the various sound-field modes, and speaker installations and roles.

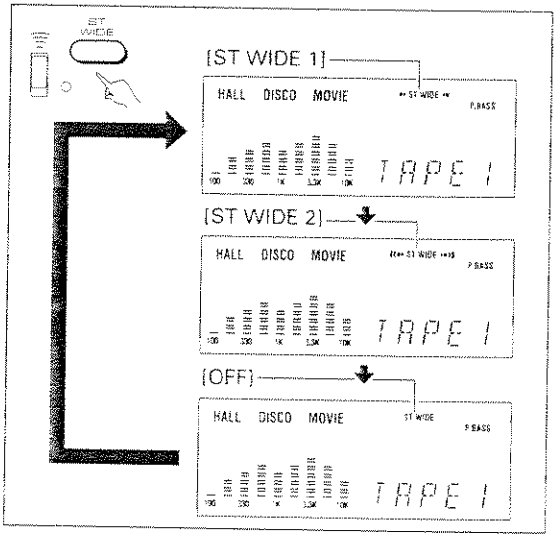


L : Front speaker (Left)
R : Front speaker (Right)
S : Surround speakers (sold separately) (U.K. and Multi-voltage models only)
○: Must be connected
◎: More effective when connected
×: Not necessary

Mode		Sound Field Effect	Speakers		
			L	R	S
SFC	HALL	Produces the effect of an expansive concert hall with rich spatial breadth.	○	○	◎
	DISCO	Produces the effect of a discotheque with powerful bass rhythm.	○	○	×
	MOVIE	Produces the effect of three-dimensional movie theater space, effective for use when watching video movies.	○	○	×
STEREO WIDE		Enhanced breadth from stereo sources.	○	○	◎

- When SFC, stereo wide, P.BASS, and one-touch karaoke mode functions are selected during CD CUSTOM mode play, they are stored automatically with each of the CUSTOM modes (I-III).
  By selecting a CUSTOM mode, a rich variety of sound effects can be combined.





SELECTING ONE OF THE 3 PRESET SOUND FIELD MODES

What is "sound field control (SFC)"?
This function allows you to select three different sound fields, each of which produces an effect similar to that heard in the respective location settings.

1. **Use the SFC MODE button to select the desired sound field.**
   Each time the button is pressed, the sound field changes in the following sequence:

HALL → DISCO → MOVIE → OFF

To listen without any sound field control, set to OFF.
The sound field control is canceled.

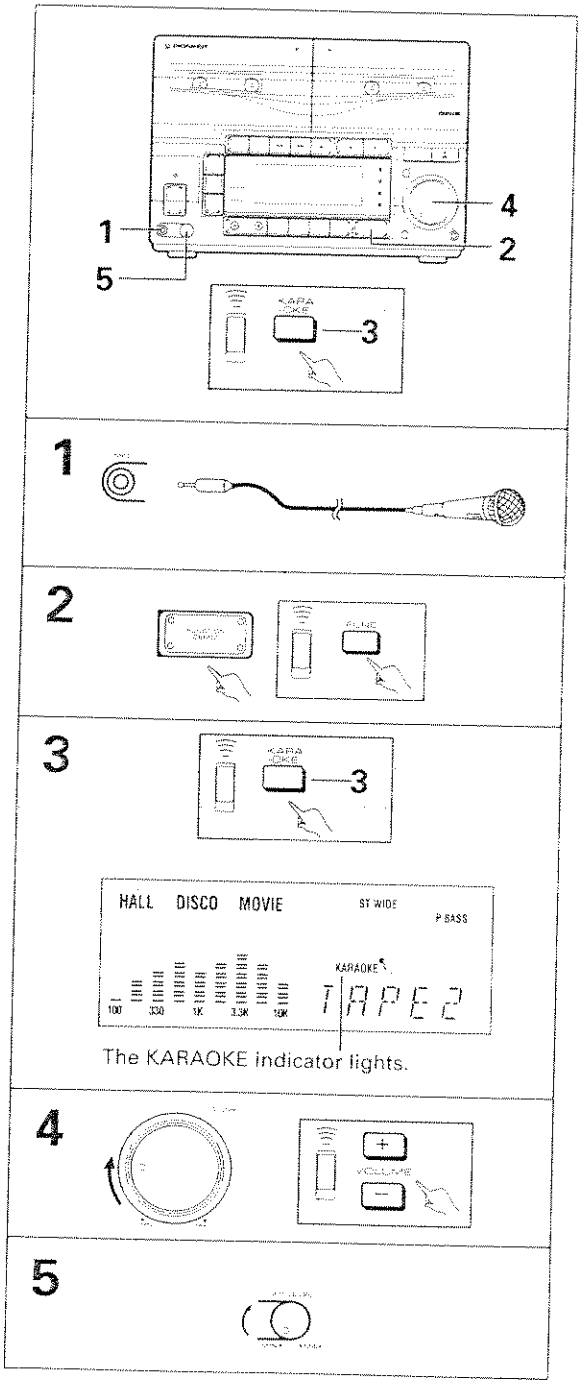
USING THE STEREO WIDE MODE

Press the remote control unit's stereo wide (ST WIDE) button.
Each time the button is pressed, the function changes in the following sequence:

ST WIDE 1 → ST WIDE 2 → OFF

ST WIDE 1: Enhanced sense of breadth with greater presence.
ST WIDE 2: Even more powerful sense of expansive presence.

USING THE ONE-TOUCH KARAOKE FUNCTION (Multi-voltage model only)



- The one-touch karaoke function is an electronic means allowing the reduction of vocal frequency bands of music sources (CD, tape, FM/AM broadcasts), in this way, creating a simple form of background accompaniment for karaoke sing-alongs when used in combination with a microphone.
  (Note that this function reduces but does not entirely eliminate the vocal bands of music sources. Also, the function does not operate with monaural sources.)

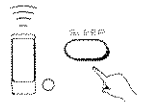
NOTE:
After completing use of a microphone:
Return the microphone level control to the MIN position, then disconnect the microphone plug from its jack. Keep the microphone level control set at MIN when not using a microphone.

1. **Attach a microphone to the microphone jack.**
   The microphone jack accepts microphones equipped with a mini-plug (diameter 3.5 mm).
2. **Select the desired music source.**
3. **Press the remote control unit's KARAOKE button.**
   To cancel the one-touch karaoke function, press the button once again.
4. **Adjust the volume as desired.**
5. **Use the MIC LEVEL control to adjust the microphone sound volume.**

NOTES:

- *Recorded cassette tapes may produce less effect than other music sources. Multiplex karaoke sources cannot be used.*
- *When the FUNCTION select button is set to TAPE, pressing the stop button (■) simultaneously disconnects sound from the microphone.*
- *By performing recording onto deck II while using the one-touch karaoke function, you can record the combined (mike-mixing) musical results of source and your singing. Note that microphone mixing cannot be performed, however, when TAPE is selected as the music source.*
  Also, during recording, the sound field control and stereo wide functions do not operate.
- *The karaoke function may not operate with optimum effect for some music sources, for example, with music sources featuring duets or where the vocals are otherwise divided between right and left channels, or with music sources produced with heavy echo effect.*
- *If microphone feedback ("howling") occurs, perform the following:*
  1. *Lower the microphone sound level (rotate the MIC LEVEL control to the left).*
  2. *Remove the microphone as far as possible from the speakers.*
  3. *Lower the overall volume.*

USING THE FUNCTION TIMER



Example: To set the sleep timer to turn off the system 30 minutes from now.

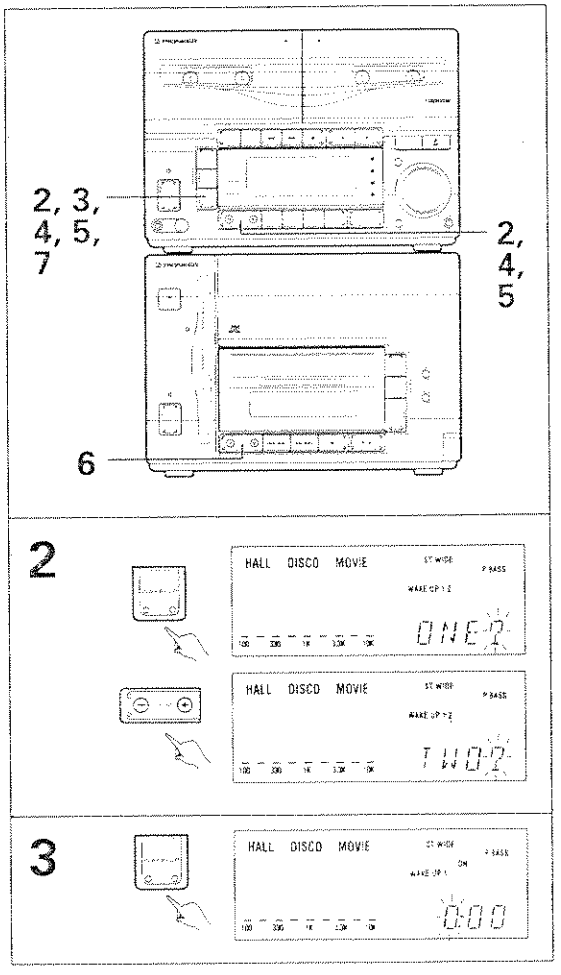
SLEEP TIMER

- This function turns the components off after a set period of time, making it perfect for listening to music as you go to sleep.
- Use the remote control unit to make this setting.

Press the remote control unit's SLEEP button.
Each time the button is pressed, the display changes in the following sequence (unit: minutes):

90 → 60 → 30 → 0 (OFF)

Once the sleep timer is operating, pressing the SLEEP button will cause the remaining time to be displayed. Pressing the button a second time will cause the set time to be changed, so if you do not wish to change the time setting, leave the unit as is.



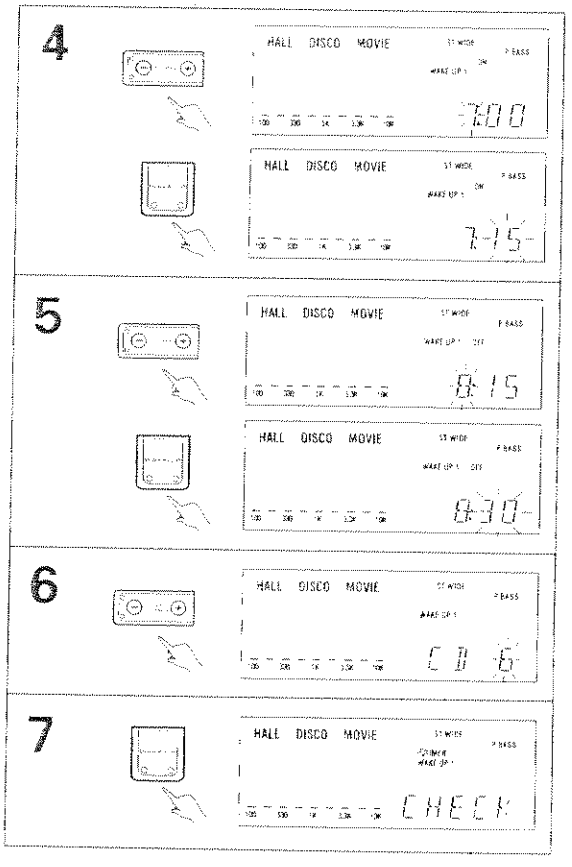
WAKE-UP TIMER

- This timer starts and stops the system and playback at the time set (if not canceled, the timer will operate everyday at the same time).
- Two kinds of timer playback can be selected (wake-up 1, wake-up 2).

Example: To set the system wake-up 1 timer to come on between 7:15 and 8:30 A.M.

1. **Turn on the power and set the system for the kind of playback function you wish.**
   - **Function select**

   CD: Load the desired CD
   TUNER: Use the station call function (☞ P.16) or the manual tuning function to call the desired station.
   TAPE: Load a cassette tape for playback (playback will begin from the forward direction (►) of deck I.
2. **Press the WAKE-UP button and within five seconds press either the WAKE-UP button again, or the TUNING (+, –) button.**
   For wake-up mode 1: Press the WAKE-UP button, then go to step 4.
   For wake-up mode 2: Press the TUNING (+, –) button once, then proceed to step 3. In step 2 when the ONE?, TWO? display is showing, if you wait for five seconds, the timer check mode (☞ P.37) will be selected, and you can select ONE? for wake-up 1 mode, and TWO? for wake-up 2 mode.
3. **Press the WAKE-UP button.**
   The starting time set mode will be selected.

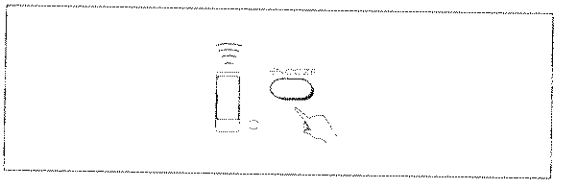


4. **Set the starting time.**
   - 4A: Use the TUNING button (+, –) to set the starting hour.
   - 4B: Press the WAKE-UP button.
   - 4C: Repeat steps 4A and 4B to set the starting minutes.
5. **Set the ending time.**
   The display will automatically show the time one hour after the starting time, but the TUNING button (+, –) can be used to set the ending time as desired. Repeat steps 4A ~ 4C to set the ending time.
6. **If the FUNCTION selector is set for CD, use the DISC NUMBER buttons (+, –) to set the number of the disc to be played.**
   Valid disc numbers are 1-50.
7. **Press the WAKE-UP button.**
   The display will show the starting time, ending time, function selector setting (tuner, CD), disc number (for CD), and the desired station (for tuner), then the display will return to its normal setting.

To begin the timer operation, press the POWER switch to turn off the power.
If the display shows " ⏲ TIMER" and "WAKE-UP 1" or "WAKE-UP 2" the timer is operating properly.

NOTES:

- *Timer playback can be canceled by pressing the WAKE-UP button so that the WAKE-UP 1 (or 2) display goes out. The setting contents are still stored in memory, however, so they can be activated by pressing the WAKE-UP button once again.*
- *The remote control unit's WAKE-UP button can be used to select either wake-up 1 or wake-up 2 timer operations. After selecting one of the operating modes, if the unit's power is still turned on, press the POWER switch to turn off the power and start the timer operation.*

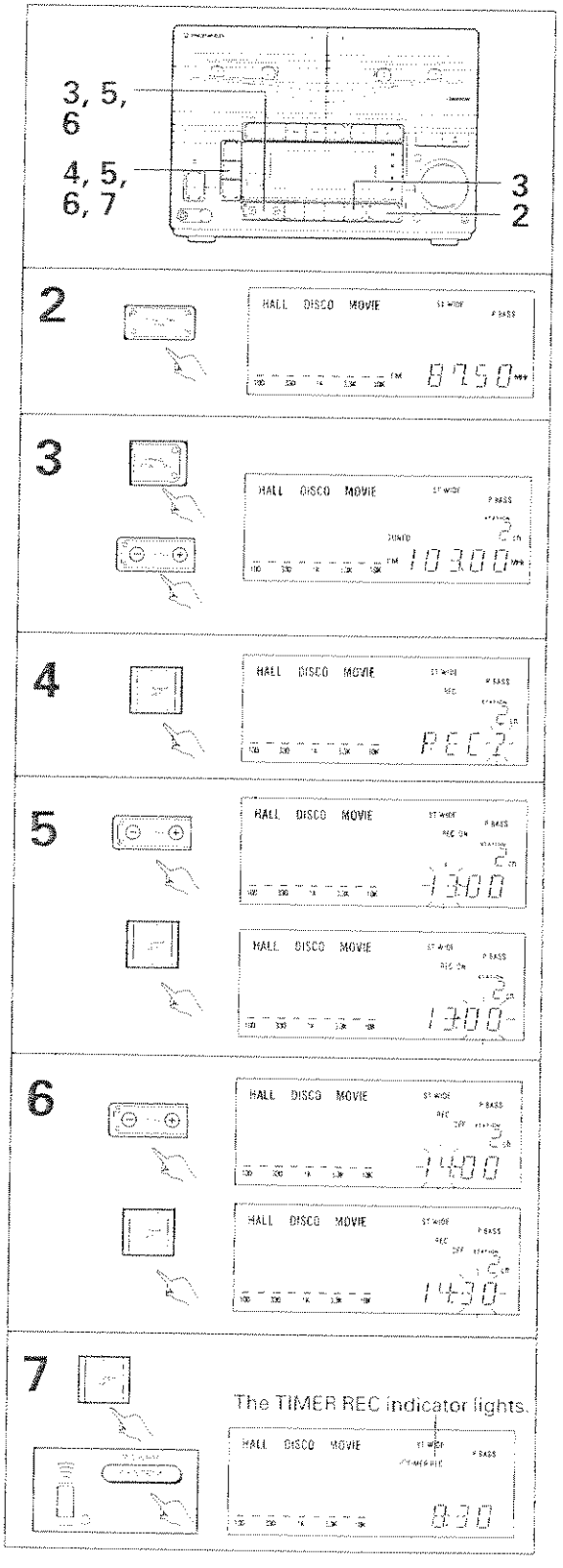


5-MINUTE SNOOZE TIMER

After the timer playback has begun, press the remote control unit's SNOOZE button to activate the snooze timer.
The timer playback will temporarily be interrupted, and turn on again five minutes later.

NOTES:

- *The snooze timer functions only when the timer playback has been set for longer than five minutes (start to end).*
- *If the timer playback has been set for less than five minutes, or there is less than five minutes left before the timer playback ends, pressing the SNOOZE button will cause the power to turn off without coming back on.*



TIMER RECORDING

- This function allows you to record FM or AM broadcasts at the time set on the timer, thus allowing unaccompanied recording of programs when you are not at home, or late at night.
- This function operates only when the FUNCTION selector has been set to TUNER.

Example: To record the broadcast program stored in station 2 from 1:00 P.M. to 2:30 P.M.

1. **Perform steps 1 and 2 on page 29, to load a recording tape into deck II.**
   Recording begins from the forward direction (►).
2. **Set the FUNCTION selector for TUNER.**
3. **Select the broadcast station to be recorded.**
   Use the FREQ./STATION button to select station display, then use the TUNING buttons (+, –) to select the desired station stored in memory.
4. **Press the TIMER REC button.**
   The display will show the REC? display.
   Within 5 seconds, press the TIMER REC button once again. The unit will enter the recording start time set mode.
   If five seconds are allowed to elapse at step 4 while the "REC?" display is showing, the unit will change to the timer check mode, and timer recording will be selected.
5. **Set the beginning time.**
   5A: Use the TUNING button (+, –) to set the starting hour.
   5B: Press the TIMER REC button.
   5C: Repeat steps 5A and 5B to set the starting minutes.
6. **Set the ending time.**
   The display will automatically show the time one hour after the starting time, but the TUNING button (+, –) can be used to set the ending time as desired. In the same way as used to set the starting time, follow the procedures in 5A ~ 5C to set the ending hour and minutes.
   This completes the time settings. The unit will automatically enter the check mode, and the setting contents will be displayed.
7. **To begin timer operation:**
   Turn the power off.
   The "⏲TIMER" and "REC" indicators are displayed, and the timer operation begins.

NOTES:

- *When recording a source connected to the MD/AUX input connectors (for example, a program received on a broadcasting satellite tuner), the other component will not be linked to the deck-receiver's timer, so it will be necessary to leave the power turned on to the other component (satellite tuner, etc.).*
- *When timer recording is performed once, the timer mode is canceled, but the set contents are stored in memory. To perform the same timer recording again, merely press the TIMER REC button again so that the TIMER REC indicator lights.*

- **To confirm the setting contents of the timer (Timer check mode)**

1 **While timer is operating:**
To confirm the setting contents of wake-up 1 or wake-up 2, first press the WAKE-UP button, and cancel the timer operation. Then press the WAKE-UP button to select wake-up 1 mode, then press the TUNING (+, –) button to show wake-up 2 mode. To confirm the settings for timer recording, first press the TIMER REC button to cancel the timer recording operation, then press the TIMER REC button once again.

2 **If the timer does not operate:**
To confirm the wake-up 1 or wake-up 2 timer settings, press the WAKE-UP button to select wake-up 1, and press the TUNING (+, –) button to select wake-up 2. To confirm the contents of timer recording settings, press the TIMER REC button.

3 About five seconds after performing steps 1 or 2, the display will automatically enter the check mode, and the timer setting contents will be displayed. Thereafter, the unit will automatically enter the timer mode. To start the timer operation, turn off the power to the unit.

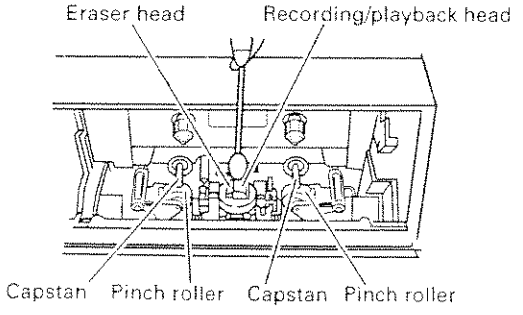
- To change the contents of the timer settings, perform the timer settings again from the beginning.
- If you make a mistake while inputting the settings, go ahead and complete the setting process for all items, then go back and re-input the settings from the beginning.

MAINTENANCE

CLEANING THE HEAD SECTION

The heads, capstans and pinch rollers are parts which are liable to become dirty quite easily. In particular, if the heads are dirty, the high frequency components of the sound will not be reproduced and the stereo balance will be impaired, resulting in a deterioration of sound quality. It is therefore recommended that the head section be cleaned regularly.

1. Turn the power off.
2. Press the EJECT mark (⏏) to open the cassette door.
3. Dip a cleaning swab into head cleaning fluid and use it to wipe the head, capstan, and pinch rollers. Wait 2-3 minutes until the cleaning fluid dries.



DEMAGNETIZING THE CASSETTE DECK HEADS

The deck heads may become magnetized after the deck has been used for a long period of time, or if a magnet or other magnetized object (screwdriver, etc.) is brought near the heads. Magnetization of the heads results in increased noise and reduced ability to reproduce high-frequency sounds.
In this case, please use a commercially available head demagnetizer at regular intervals to eliminate the magnetic field on the heads. When using a head demagnetizer, turn this unit's power switch ON. In order to prevent adverse effects on the receiver and speakers, however, **be sure to turn down the receiver's volume control to its lowest position**, and disconnect any headphones from their headphones jack. For details, consult the instructions accompanying your head demagnetizer.

MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the troubleshooting points below. The trouble may lie in another component. Also investigate any other components and electrical appliances being used.
If the trouble cannot be rectified even after performing the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Probable Cause	Remedy
Common to all sections		
No sound.	• Power plug is disconnected. • Other connecting cables are disconnected. • Function selector is not set correctly.	• Connect power plug correctly. • Check the connection instructions and confirm that all connections are correct. • Select the source function you wish to listen to.
Tape deck		
Cassette door doesn't open.	• Power cord was disconnected while deck was running.	• Reconnect power cord (☞ P.8).
Recording can't be performed.	• Cassette's erasure-prevention tabs are broken out.	• Either replace the cassette, or place adhesive tape over the erasure-prevention tab holes (☞ P.17).
Sound is muddy, or when recording over a previously recorded tape, the previous recording is not erased completely.	• Recording heads are dirty.	• Clean heads (☞ P.37).
Sound is distorted; high-range sounds are over-emphasized.	• DOLBY NR button is not set to same setting for playback as for original recording.	• Set the DOLBY NR button to the correct setting for the tape being played.
CD player		
Play doesn't begin even when play button (►) is pressed.	• Disc is loaded backwards. • Disc is dirty. • Disc has large scratch or warp.	• Load disc correctly with label surface toward the right. • Clean the disc. • Replace the disc.
FM/AM receiver		
Broadcasts can't be heard, or sound is distorted.	• Antennas aren't connected. • Antennas aren't oriented in proper direction. • Electrical appliances (fluorescent lamps, hair dryer, etc.) are being used nearby.	• Connect antennas correctly (☞ P.7, 8). • Orient antennas in proper direction. • Stop using the other appliances.
Stereo broadcasts are heard in monaural.	• The MONO indicator is lighted in the display.	• Press the MONO button so that the MONO indicator goes out (☞ P.15).
Other		
Timer doesn't operate.	• The clock is not set to the proper current time.	• Set the clock properly.
The remote control unit doesn't operate.	• The remote control unit's batteries are dead. • A fluorescent lamp is lighted nearby the remote control signal sensor.	• Insert new batteries (☞ P.6). • Move the fluorescent lamp away from the deck-receiver or turn it off.
Noise is heard when using a microphone with the one-touch karaoke function.	• Electrical appliances (fluorescent lamp, hair dryer, etc.) are being used nearby.	• Stop using the other appliances.

- When the system is located beside a television, distortion of the television's image may occur. This may occur particularly when the television is used with an indoor antenna; if so, either switch to an outdoor antenna, or move the television away from the stereo set.
- This unit may fail to operate properly in the event of nearby lightning strikes, static electricity and other external influences. In such cases, either switch the power OFF and ON again, or temporarily disconnect the power cord and plug it in again.

SPECIFICATIONS

■ STEREO CASSETTE DECK RECEIVER: RX-P840

Amplifier Section

<U.S. model>

Continuous Average Power Output is 70 Watts* per channel, min., at 8 ohms from 40 Hz to 20,000 Hz with no more than 0.9 % total harmonic distortion.**

Continuous power output (RMS)
.....100 W+100 W (1 kHz, T.H.D. 10%, 8 Ω)
Continuous power output (DIN)
.....75 W+75 W (1 kHz, T.H.D. 1%, 8 Ω)
Music power (DIN).....324 W (Total)
Peak music power output
(Multi-voltage model only).....730 W/8 Ω

FM Tuner Section

Reception frequencies.....87.5 – 108 MHz
Antenna input .....75 Ω unbalanced

AM Tuner Section

Reception frequencies .....531 kHz – 1602 kHz (9k)
530 kHz – 1700 kHz (10k)
Antenna .....Loop antenna (included)

Double Cassette Deck Section

System type .....4-track, 2-channel stereo
Heads .....Recording/playback head x 1
Playback head x 1
Erasing head x 1
Motor .....DC servo motor x 1
Frequency response
Type II (High/CrO_2) tape
.....*35 Hz – 15,000 Hz ±6dB
(recorded at –20 dB)
Type I (Normal) tape.....*35 Hz – 14,000 Hz ±6dB
(recorded at –20 dB)
SN ratio .....*56 dB
(peak recording level, audible compensation)
Dolby B type NR on .....10 dB compensation at 5 kHz
Dolby C type NR on .....19 dB compensation at 5 kHz

* Values measured in accordance with EIAJ standards.

■ FILE TYPE CD PLAYER: PD-P840F

Type .....Compact disc audio system
Usable discs .....Compact audio discs
Channels .....2 channels (stereo)
Program steps .....32 steps maximum

■ ELECTRICAL REQUIREMENTS, ETC.

Power requirements
U.S. model .....AC 120 V, 60 Hz
U.K. model.....AC 240 Volts~, 50/60 Hz
Multi-voltage model
Stereo deck receiver section.....AC 110/120 – 127/220/240 V (Switchable), 50/60 Hz
Compact disc player section.....AC 110 – 127/220 – 240 V (Switchable), 50/60 Hz
Power consumption
Stereo deck receiver section
U.S. model .....170 W
U.K. and Multi-voltage models .....390 W
Compact disc player section .....15 W
AC OUTLET .....UNSWITCHED 100 W MAX x 1
External dimensions
Stereo deck receiver section
..... 260 (W) x 185 (H) x 365 (D) mm
10-1/4 (W) x 7-5/16 (H) x 14-3/8 (D) in.
Compact disc player section
..... 260 (W) x 185 (H) x 402 (D) mm
10-1/4 (W) x 7-5/16 (H) x 15-13/16 (D) in.
Weight
Stereo deck receiver section .....7.3 kg (16 lb 3 oz)
Compact disc player section .....7.3 kg (16 lb 3 oz)

■ SPEAKER SYSTEMS: S-P840V/S-P840A/S-P840

Enclosure .....Bass-reflex bookshelf type
System .....16 cm (6-1/4 in) 4 way system (S-P840V)
16 cm (6-1/4 in) 3 way system (S-P840A)
15 cm (6 in) 3 way system (S-P840)
Loud speakers
Woofer .....16 cm (6-1/4 in) cone type (S-P840V/S-P840A)
15 cm (6 in) cone type (S-P840)
Mid-range .....6.6 cm (2-1/2 in) cone type
Tweeter .....2.0 cm (3/4 in) dome type (S-P840V/S-P840A)
1.6 cm (5/8 in) dome type (S-P840)
Super-tweeter .....1.6 cm (5/8 in) dome type (S-P840V)
Nominal impedance ..... 8 Ω
Frequency range ..... 45 to 20,000 Hz (S-P840V/S-P840)
40 to 20,000 Hz (S-P840A)
Sensitivity ..... 86.5 dB/W at 1 m distance (S-P840V/S-P840)
85 dB/W at 1 m distance (S-P840A)
Maximum power ..... 110 W (S-P840V)
100 W (S-P840A)
Music power (DIN) ..... 100 W (S-P840)
Dimensions .....190 (W) x 371.5 (H) x 275 (D) mm
7-7/16 (W) x 14-5/8 (H) x 10-13/16 (D) in. (S-P840V)
190 (W) x 370 (H) x 259 (D) mm
7-7/16 (W) x 14-9/16 (H) x 10-3/16 (D) in. (S-P840A)
180 (W) x 371.5 (H) x 233 (D) mm
7-1/16 (W) x 14-5/8 (H) x 9-3/16 (D) in. (S-P840)
Weight.....3.7 kg (8 lb 3 oz) (S-P840V)
4.0 kg (8 lb 13 oz) (S-P840A)
3.5 kg (7 lb 11 oz) (S-P840)

● S-P840V is magnetically shielded.

SPECIFICATIONS

■ ACCESSORIES

Operating Instructions 1
FM T-type antenna 1
AM loop antenna 1
System cable 1
Remote control unit 1
AA batteries (R6P/SUM-3) 2
Speaker cords (included with speaker systems) 2
CD liner notes file (included with CD player) 1
Index label sheet (included with CD player) 1
Electrostatic charge removal sheet
(included with CD player) 1

NOTE:
Specifications and design subject to possible modification without notice due to improvements.

* Measured pursuant to the Federal Trade Commissions's. Trade Regulation rule on Power Output Claims for Amplifier.
** Measured by audio spectrum analyzer.

Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

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<95A01RF1Z07>

Printed in Japan <ARB7012-C>